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Water Resources Data for North Carolina

Part 1. Surface Water Records

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the North Carolina Office of Water and Air Resources and with other State, municipal, and Federal agencies

CALENDAR FOR WATER YEAR 1972

OCTOBER 1971

S	M	T	W	T	F	S
					1	2
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31						

NOVEMBER 1971

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JANUARY 1972

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FEBRUARY 1972

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MARCH 1972

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APRIL 1972

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MAY 1972

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JUNE 1972

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JULY 1972

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AUGUST 1972

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SEPTEMBER 1972

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3	4	5	6	7	8	9
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17	18	19	20	21	22	23
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1972

Water Resources Data for North Carolina

Part 1. Surface Water Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the North Carolina Office of Water and Air Resources and with other State, municipal, and Federal agencies

Prepared in cooperation with

North Carolina Office of Water and Air Resources
North Carolina State Highway Commission
City of Asheville
City of Burlington
City of Charlotte
City of Durham
City of Greensboro
City of Winston-Salem
Town of Waynesville
Corps of Engineers, U. S. Army
Tennessee Valley Authority
Soil Conservation Service, U. S. Department of Agriculture

Water resources records, 1972, for North Carolina are in the following reports of the U. S. Geological Survey:

1. Water Resources Data for North Carolina
   Part 1: Surface Water Records

2. Water Resources Data for North Carolina
   Part 2: Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U. S. Geological Survey
436 Century Station Post Office Building
300 Fayetteville Street
Raleigh, North Carolina 27602

1973

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WATER RESOURCES DATA FOR NORTH CAROLINA, 1972

PART 1. SURFACE-WATER RECORDS

INTRODUCTION

Surface-water records for the 1972 water year for North Carolina, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, are given in this report. The location of gaging stations where a continuous record of discharge is collected is shown in figures 1 and 2. The records were collected and computed by the Water Resources Division of the U. S. Geological Survey under the direction of R. C. Heath, district chief. These data represent that portion of the National Water Data System collected by the U. S. Geological Survey and cooperating State, municipal and Federal agencies in North Carolina.

Through September 30, 1960, the records of discharge and stage of streams and canals and contents and stage of lakes or reservoirs were published in an annual series of U. S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States."

Beginning with the 1961 water year, surface-water records have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. The discharge and reservoir storage records for 1961-65 also are published in a Geological Survey water-supply paper series entitled "Surface Water Supply of the United States 1961-65." There will be a similar series of water-supply papers for the water years 1966-70.

HYDROLOGIC CONDITIONS

Streamflow during the 1972 water year was about normal in the Coastal Plain and eastern Piedmont but was excessive (in upper 25 percent of record) in the western Piedmont and mountain area. Runoff at the three index stations, as compared with the normals, was as follows: Neuse River near Clayton, 100 percent; South Yadkin River near Mocksville, 143 percent; and French Broad River at Asheville, 126 percent.

At the start of the 1972 water year, on October 1, Hurricane Ginger was moving erratically northeastward across the central Coastal Plain and Piedmont. Total storm rainfall was 13.2 inches at Wanchese, over 10 inches at Belhaven and Bayboro, and 7.5 inches at New Bern. Significant floods occurred at some gaging stations in the eastern Coastal Plain, the most notable being in the Washington area in Beaufort County. Later in October additional heavy rains caused bankfull stages or flooding on most streams throughout the State. Agricultural experts estimated the losses in crops to be about 60 million dollars, principally because farmers were unable to harvest their crops due to rain and wet fields.

During the period from November through February streamflow was normal or above normal, but with most streams remaining within their banks. Streamflow generally followed seasonal declines in March and April, reaching below-normal levels in the eastern Piedmont and mountains. Above normal rainfall during May resulted in excessive streamflow throughout the State, with most streams reaching bankfull stages at some time during the month.

Heavy rains, totaling as much as 10 inches in places, associated with tropical storm Agnes caused widespread flooding in the western half of the State on June 20-23. Severe flooding was limited to the north central and western parts of the State. Record or near record floods occurred on the Dan, Smith, Mayo, and Yadkin Rivers and many of their upper tributaries. Peak discharges on some streams in these basins exceeded those likely to occur on an average of once in 50 years. Lesser flooding occurred in the Catawba River basin and on portions of the Cane, South Toe, and Pigeon Rivers of the Tennessee River basin. Flood waters from the storm caused damage to agriculture, business, industry, residential property, and highways. The total damage is estimated at about 4 million dollars with almost half of this amount occurring in Rockingham County. Two deaths by drowning were reported. Mud and rock slides damaged several highways in western counties.

During July streamflow was excessive in the mountains and western Piedmont and Coastal Plain. There was flash flooding on some small streams caused by localized thunderstorms. Streamflow continued to recede during August and September with flows above normal in the mountains and Coastal Plain and below normal in the Piedmont at the end of the water year.

COOPERATION

Cooperative agreements between the U. S. Geological Survey and organizations of the State of North Carolina for the systematic collection of streamflow records began in 1895 and continued through 1909. After a lapse of eight years, the State of North Carolina resumed cooperating in October 1918. Organizations that assisted in collecting data through cooperative agreements with the Survey are:

North Carolina Office of Water and Air Resources, George E. Pickett, director.
North Carolina State Highway Commission, G. H. Willoughby, Jr., highway administrator.
City of Asheville, P. E. Horton, 111, city manager.
City of Burlington, James D. Mackintosh, Jr., city manager.
City of Charlotte, John M. Belk, mayor.
City of Durham, I. Harding Hughes, Jr., city manager.
City of Greensboro, John G. Turner, city manager.
City of Winston-Salem, Joe H. Berrier, director of Public Works.
Town of Waynesville, Henry G. Clayton, Jr., mayor.

Assistance in the form of funds or services were given by the Corps of Engineers, U. S. Army, in collecting records published herein for 50 gaging stations.

Under a cooperative agreement covering the Tennessee River basin, the Tennessee Valley Authority furnished financial assistance for the operation of 20 gaging stations.

The Soil Conservation Service, U. S. Department of Agriculture furnished financial assistance in operation of 5 stations in North Carolina.

Assistance was also furnished by the National Weather Service, NOAA, U. S. Department of Commerce.

The following organizations aided in collecting records:

Cities of Danville, Va. and Raleigh; American Enka Corp.; Appalachian Power Co.; E. I. du Pont de Nemours and Co., Carolina Power and Light Co.; Champion Paper and Fibre Co.; Duke Power Co.; Federal Paper Board Co., Inc.; Olin Mathieson Chemical Corp.; The Mead Corp., Sylva Division; Virginia Electric and Power Co.; and Yadkin, Inc.

DEFINITION OF TERMS

Definition of terms related to streamflow and other hydrologic data, as used in this report, are as follows:

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,851 gallons.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, or 646,317 gallons, and represents a runoff of 0.0372 inch from 1 square mile.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artifical structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage", although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Partial-record station is a particular site where limited streamflow data are collected systematically over a period of years for use in hydrologic analyses.

Runoff in inches (IN.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Stage-discharge relation is the relation between gage height and the amount of water flowing in a channel, expressed as volume per unit of time.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report the rank of tribaries is indicated by indention, each idention representing one rank.

As an added means of identification, each gaging station, partial-record station, and miscellaneous site has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations, miscellaneous sites, and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of all stations and sites. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 02115850, includes the part number "02" and a 6-digit station number. In this report the complete number 02115850 appears just to the left of the station name. However, the density of miscellaneous sites, for which numbers are shown in this report, make it necessary in some cases to use ten digits in order to indicate the proper downstream order. In this report, the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

EXPLANATION OF SURFACE-WATER DATA

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams, and stage and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that gives a continuous graph of the fluctuations (for digital

recorders, a tape punched at 5-, 15-, 30-, or 60-minute intervals) or from direct readings on a nonrecording gage. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks on the measurement of stream discharge. (See also SELECTED REFERENCES.)

For a stream-gaging station rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The application of the daily mean gage heights to the rating table gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in determining discharge. Information required for determining the slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in determining discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge

measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologist, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. Discharge over spillways is computed from a stage-discharge relation curve defined by discharge measurements. The application of the stage to the capacity table gives the contents, from which monthly and yearly change in contents is computed.

During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment. If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparisons with other station records from the same or nearby basins.

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations on streams a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the 1972 water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, and general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the

Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD". The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE". In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance.

The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or the minimum contents) and the minimum gage height if it is significant are given under "EXTREMES". The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year": the data given are the complete water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record": the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES". Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge or contents, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS"; for reservoir stations most of this information and information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir are contained in one or two paragraphs.

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to

find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised; the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily readings of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on gage readings.

The monthly summary is given below the daily table. For streamgaging stations the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."). Figures of cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average rainfall on the drainage basin is usually less than 20 inches.

In the yearly summary below the monthly summary, the figures following MAX are the maximum daily discharges for the calendar year and water years; likewise, those following MIN are the minimum daily discharges.

For reservoir stations the table gives the water-surface elevation (or gage-height) and contents on the last day of each month, usually at 2400, and the change in contents during the month. The yearly summary gives the change in contents for the calendar year and for the water year.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030 and 1:30 p.m. is 1330.

In a general footnote, introduced by the word "NOTE" certain periods are indicated for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The method used in computing discharge for various unusual conditions have been explained in preceding paragraphs. Footnotes to reservoir tables may be used to explain the basis of elevation and contents figures or for other special conditions.

Accuracy of Data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than fair accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation, evaporation, or other factors. For such stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects. If the effects of regulation upon the monthly mean discharge are considered small or if figures of diversion are given (see REMARKS), the monthly and annual discharge summary data including cubic feet per second per square mile and runoff in inches are published with no adjustments made. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparisons with the observed discharge.

Publications

Each volume of the 1960 series of U. S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States" contains a listing of the numbers of all water-supply papers in which records of surface-water data were published for the area covered by the individual volumes. Each volume also contains a list of water-supply papers that give detailed information on major floods for the area. A new series of water-supply papers containing surface-water records for the 5-year period October 1, 1960, to September 30, 1965, also will include lists of annual and special reports published as water-supply papers.

Records through September 1950 for the area covered by this report have been compiled and published in Water-Supply Papers 1303 (2A), 1305 (3A), and 1306 (3B); records for October 1950 to September 1960 have been compiled and published in Water-Supply Papers 1723 (2A), 1725 (3A), and 1726 (3B). These reports contain summaries of monthly and annual discharge and month-end storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Data collected at partial-record stations and at miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

More detailed information than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Many gaging-station records in North Carolina through 1968 have been analyzed to give several statistical summaries: (1) the number of days in each year that the daily discharge was between selected limits (duration tables); (2) the lowest mean discharge for selected numbers of consecutive days in each year; and (3) the highest mean discharge for selected numbers of consecutive days in each year. Rainfall records are collected at several gaging stations for use in special studies, but are not routinely published. Reference is made to the rain gage under "REMARKS". These rainfall data are on file in the district office.

At or near some gaging stations, water-quality records also are collected. Data are obtained on the chemical quality of the stream water, on the water temperature, and on the

sediment. These data are given in Part 2 of this report. Under the "REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

DISCHARGE RECORDS COLLECTED BY OTHER AGENCIES

Records of discharge not published by the Geological Survey were collected in North Carolina at 23 sites during the 1972 water year by the following agencies: Records at 17 sites were collected by the U. S. Department of Agriculture, Coweeta Hydrologic Laboratory; at 4 sites by the Tennessee Valley Authority; and at 3 sites by the U. S. Department of Agriculture, Forest Service. The office of Water Data Coordintation, Water Resources Division, U. S. Geological Survey, Washington, D. C. 20244, maintains an index of these sites. Information on records of specific sites can be obtained from that office upon request.

SELECTED REFERENCES

Carter, R. W., and Davidian, Jacob, 1968, General procedure for gaging streams; U. S. Geol. Survey Techniques Water-Resources Inv., book 3, Chap. A6, 13 p.

Corbett, D. M., and others, 1943, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U. S. Geol. Survey Water-Supply Paper 888, 245 p.

Langbien, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U. S. Geol. Survey Water-Supply Paper 1541-A, 29p.

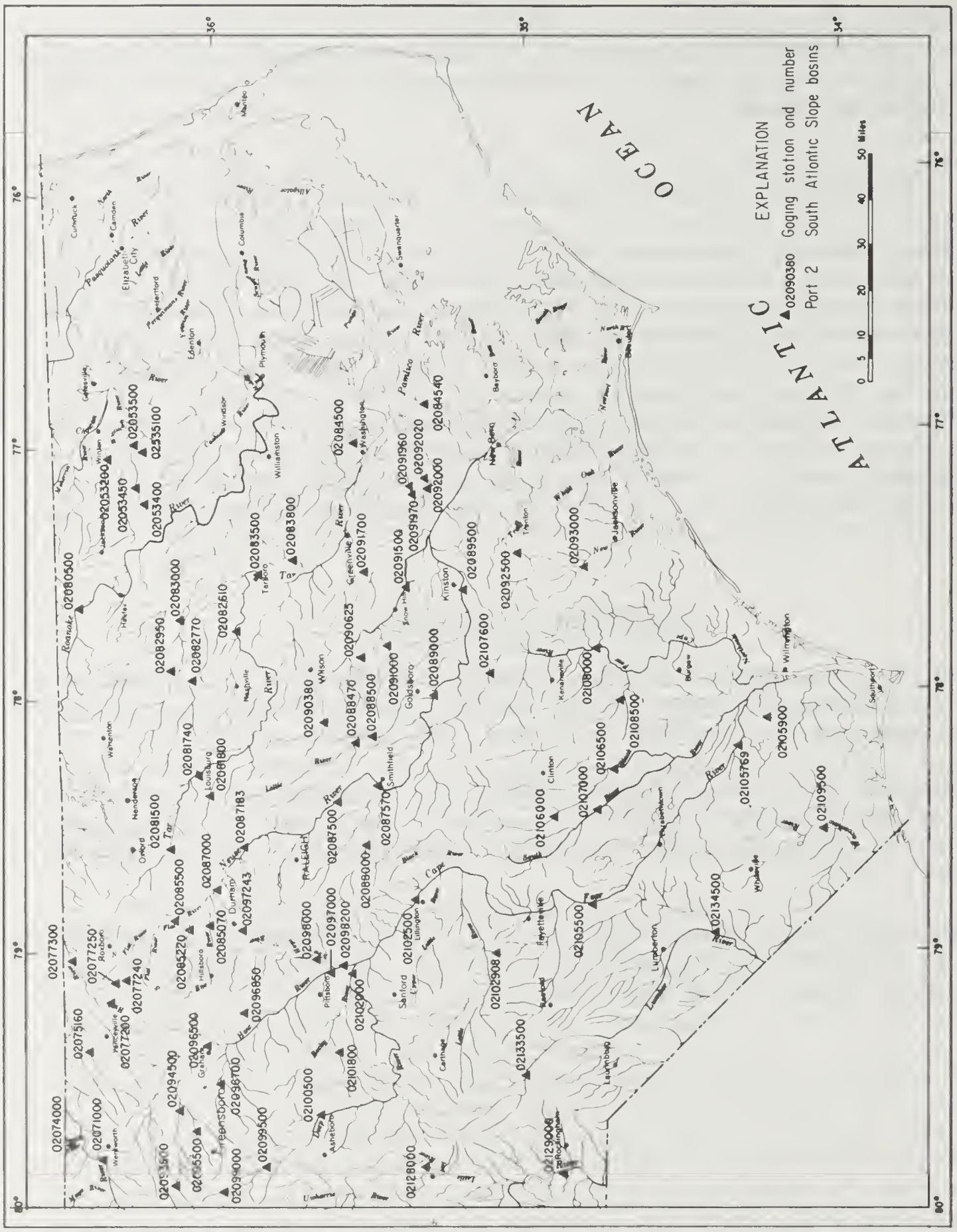

Figure 1. Map of eastern part of North Carolina showing location of gaging stations.

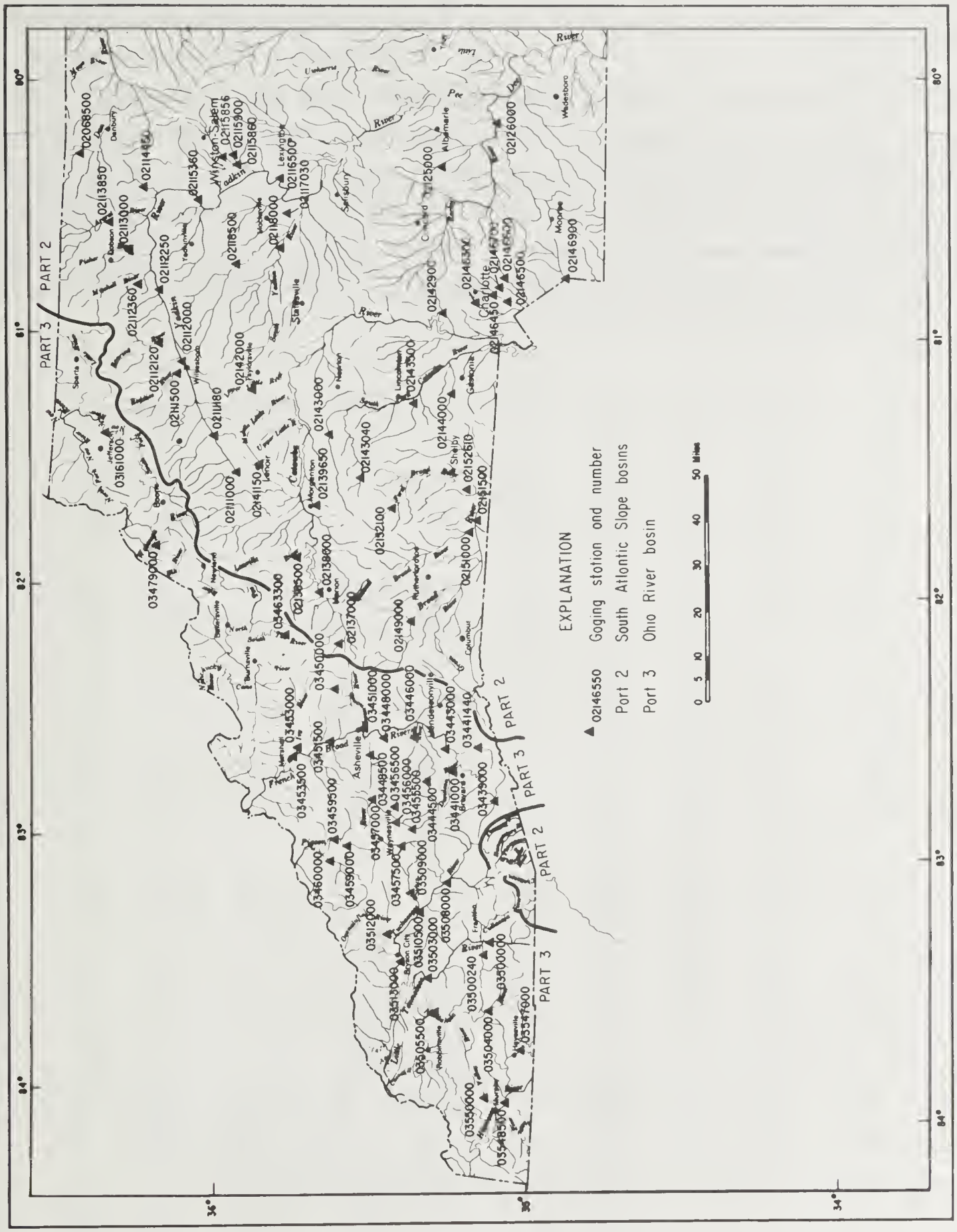

Figure 2. Map of western part of North Carolina showing location of gaging stations.

SOUTH ATLANTIC SLOPE BASINS

CHOWAN RIVER BASIN

02053200 Potecasi Creek near Union, N. C.

LOCATION.--Lat 36°22'14", long 77°01'36", Hertford County, on right bank at downstream side of bridge on Secondary Road 1168, 2.8 miles north of Union, 3 miles downstream from Cutawhiskie Swamp, and 3.5 miles upstream from Bells Branch.

DRAINAGE AREA.--191 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1953-57. March 1958 to current year.

GAGE.--Water-stage recorder. Altitude of gage is about mean sea level (by barometer). Prior to Dec. 1, 1958, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--14 years, 231 cfs (16.42 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,760 cfs Oct. 27 (gage height, 13.21 ft); minimum, 5.2 cfs Sept. 20, 21 (gage height, 1.59 ft).
Period of record: Maximum discharge, 4,050 cfs May 10, 1958 (gage height, 19.12 ft); minimum, 0.2 cfs July 1, 1959.
Flood in 1929 reached a stage of 19.1 ft (discharge, 4,050 cfs), and flood of August 1940 reached a stage of 24.1 ft (discharge, 7,000 cfs from rating curve extended above 4,000 cfs), from information furnished by North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	731	641	119	98	106	274	182	67	426	192	107	6.0
2	1,200	492	123	91	266	237	202	56	473	294	79	8.4
3	1,200	387	123	86	728	212	176	71	792	298	104	11
4	1,050	360	122	91	700	191	162	412	1,200	230	81	10
5	879	328	118	146	660	169	154	410	1,150	171	61	24
6	820	285	112	174	600	157	147	234	900	126	48	48
7	971	260	106	155	520	146	134	306	636	88	44	32
8	868	264	98	136	470	136	127	384	405	60	62	21
9	686	264	98	136	420	127	123	376	228	40	45	15
10	584	286	94	151	360	116	111	323	138	30	46	12
11	703	276	89	247	320	105	99	233	100	25	26	9.2
12	740	243	85	323	280	98	94	160	80	60	18	8.0
13	620	207	95	397	350	92	94	117	70	196	13	7.2
14	538	172	109	923	450	87	93	94	50	169	12	6.7
15	477	146	108	1,070	560	82	93	97	45	121	12	6.0
16	405	127	99	1,000	500	77	94	110	35	111	9.8	5.6
17	334	113	104	902	586	127	85	121	180	98	9.0	10
18	275	101	117	750	666	231	76	94	340	78	8.4	8.0
19	228	91	117	584	816	200	68	498	310	58	13	5.8
20	195	84	127	454	1,130	188	61	489	150	39	26	5.2
21	167	79	185	357	1,120	210	63	275	70	27	36	5.8
22	141	73	208	301	1,090	252	65	297	351	20	35	6.2
23	383	67	181	264	1,030	370	82	694	328	15	27	6.2
24	1,270	64	164	231	880	371	81	810	141	12	20	6.0
25	1,580	82	159	207	702	311	99	692	93	10	14	5.6
26	1,710	91	150	181	532	268	141	633	80	20	11	5.5
27	1,750	94	140	146	436	230	121	534	65	15	8.6	5.3
28	1,600	106	131	143	369	202	100	425	52	10	7.2	51
29	1,310	111	122	130	316	173	89	316	76	12	7.0	63
30	1,060	114	114	122	------	149	78	222	164	39	6.7	36
31	833	------	106	114	------	144	------	173	------	87	6.2	------
TOTAL	25,308	6,004	3,827	10,111	16,963	5,732	3,294	9,723	9,128	2,751	1,002.9	449.7
MEAN	816	200	123	326	585	185	110	314	304	88.7	32.4	15.0
MAX	1,750	641	208	1,070	1,130	371	202	810	1,200	298	107	63
MIN	141	64	85	86	106	77	61	56	35	10	6.2	5.2
CFSM	4.27	1.05	.64	1.71	3.06	.97	.58	1.64	1.59	.46	.17	.08
IN.	4.93	1.17	.75	1.97	3.30	1.12	.64	1.89	1.78	.54	.20	.09

CAL YR 1971 TOTAL 104,766.3 MEAN 287 MAX 1,830 MIN 3.0 CFSM 1.50 IN 20.40
WTR YR 1972 TOTAL 94,293.6 MEAN 258 MAX 1,750 MIN 5.2 CFSM 1.35 IN 18.37

02053400 Ahoskie Creek near Rich Square, N. C.

LOCATION.--Lat 36°14'52", long 77°14'12", Northampton County, on right bank 150 ft upstream from culvert on Secondary Road 1100, 1.8 miles downstream from Seaboard Coast Line Railroad bridge, and 3.5 miles southeast of Rich Square.

DRAINAGE AREA.--3.7 sq mi, approximately.

PERIOD OF RECORD.--June 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 57.62 ft above mean sea level (Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--8 years, 3.05 cfs (11.19 inches per year).

EXTREMES.--Current year: Maximum discharge, 128 cfs May 18; maximum gage height, 8.14 ft Oct. 23; minimum discharge, 0.01 cfs Sept. 16, 18, 19; minimum gage height, 1.96 ft Sept. 16.
Period of record: Maximum discharge, 294 cfs Oct. 5, 1964; maximum gage height, 8.61 ft Jan. 14, 1968; no flow for many days of most years.

REMARKS.--Records fair. Entire basin above station is canalized. Excavation was completed in July 1964. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	3.9	.30	.43	1.2	2.3	4.0	.43	58	.09	4.1	.02
2	20	2.9	.22	.43	25	2.1	2.7	.24	28	.06	.12	.05
3	15	3.3	.20	.34	26	1.8	1.7	1.2	14	.06	.06	.03
4	8.0	3.1	.22	1.4	22	1.6	1.4	10	6.3	.04	.03	.03
5	4.0	2.1	.24	3.1	14	1.5	1.3	4.4	2.4	.06	.03	.06
6	9.9	1.3	.24	2.4	11	1.5	.91	1.7	.85	.06	.03	.13
7	8.6	.92	.24	1.9	8.5	1.2	.70	.91	.49	.04	.13	.03
8	3.8	.70	.27	1.5	6.5	1.0	1.3	.56	.24	.04	.13	.02
9	1.3	.61	.24	1.4	4.8	.78	.91	1.4	.16	.04	.04	.02
10	7.0	.53	.22	2.7	3.7	.56	.63	.70	.13	.04	.04	.02
11	12	.51	.20	7.0	3.0	.43	.56	.30	.13	.04	.03	.02
12	7.0	.48	.20	7.0	2.7	.38	.56	.20	.09	1.7	.02	.02
13	3.7	.46	.34	30	21	.30	.78	.18	.07	.46	.02	.02
14	1.7	.42	.30	31	18	.27	1.9	.24	.06	.13	.03	.02
15	.68	.41	.30	17	13	.24	5.2	.70	.06	.06	.03	.02
16	.40	.41	.30	11	9.4	.30	2.8	22	.06	.05	.02	.01
17	.31	.40	.34	6.8	9.8	6.5	1.4	9.4	1.7	.04	.02	.02
18	.25	.39	.38	5.4	12	5.4	1.0	40	.91	.03	.02	.01
19	.21	.38	.27	5.7	47	3.0	.63	65	.18	.03	.02	.01
20	.21	.38	1.4	5.2	26	1.9	.49	34	.43	.03	.02	.02
21	.22	.39	2.6	5.2	16	1.4	1.3	18	7.2	.03	.02	.02
22	.21	.39	1.8	4.8	12	4.2	1.5	60	19	.03	.02	.02
23	43	.40	1.4	4.2	8.8	5.0	3.5	57	6.8	.03	.02	.02
24	26	.41	1.1	3.5	7.8	2.7	2.3	32	1.3	.03	.02	.02
25	17	.45	1.0	3.0	6.5	1.7	7.5	20	.27	2.1	.02	.02
26	12	.42	.91	2.1	5.4	1.4	5.7	14	.16	4.0	.02	.02
27	9.0	.44	.78	1.7	4.2	1.0	2.8	6.8	.12	.04	.02	.02
28	7.0	.50	.70	1.6	3.3	.85	1.6	3.7	.10	.03	.02	.02
29	5.6	.49	.63	1.4	2.8	.63	1.1	2.1	.18	.05	.02	.02
30	5.0	.45	.56	1.4	------	.78	.63	1.4	.20	.12	.02	.02
31	5.1	------	.49	1.4	------	2.2	------	3.8	------	7.0	.02	------
TOTAL	254.19	27.94	18.39	172.00	351.4	54.92	58.80	412.36	149.59	16.56	5.16	.78
MEAN	8.20	.93	.59	5.55	12.1	1.77	1.96	13.3	4.99	.53	.17	.026
MAX	43	3.9	2.6	31	47	6.5	7.5	65	58	7.0	4.1	.13
MIN	.21	.38	.20	.34	1.2	.24	.49	.18	.06	.03	.02	.01
CFSM	2.22	.25	.16	1.50	3.27	.48	.53	3.59	1.35	.14	.05	.007
IN.	2.56	.28	.18	1.73	3.53	.55	.59	4.15	1.50	.17	.05	.007

CAL YR 1971 TOTAL 1,204.59 MEAN 3.30 MAX 56 MIN .02 CFSM .89 IN 12.11
WTR YR 1972 TOTAL 1,522.09 MEAN 4.16 MAX 65 MIN .01 CFSM 1.12 IN 15.30

PEAK DISCHARGE (BASE, 70 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-18	1830	5.44	128	5-31	1630	5.32	122
5-22	1200	4.60	86				

02053450 Ahoskie Creek at Mintons Store, N. C.

LOCATION.--Lat 36°16'46", long 77°09'28", Hertford County, on right bank at downstream side of bridge on State Highway 305, 1.5 miles southeast of Mintons Store, and 3 miles upstream from Fort Branch.

DRAINAGE AREA.--24 sq mi, approximately.

PERIOD OF RECORD.--February 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft above mean sea level (Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--8 years, 24.5 cfs (13.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 700 cfs Oct. 23 (gage height, 12.26 ft from floodmark in gage well); minimum, 1.2 cfs Sept. 13, 20; minimum gage height, 3.12 ft Aug. 12.
Period of record: Maximum discharge, 1,330 cfs Oct. 5, 1964; maximum gage height, 12.78 ft Jan. 14, 1968; minimum discharge, 0.39 cfs Aug. 11, 12, 1971.
No flow observed Aug. 16, 1961.

REMARKS.--Records fair. Entire basin above station is canalized. Excavation completed in February 1964. Recording rain gage located at gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	25	10	5.9	8.9	15	26	5.9	229	5.8	17	2.8
2	286	21	8.2	5.9	107	14	20	5.9	62	4.8	26	3.8
3	182	29	7.5	7.2	96	14	14	54	30	4.8	10	2.3
4	82	30	8.0	16	76	14	12	114	15	4.8	6.8	1.9
5	50	21	8.3	25	49	13	13	50	10	4.2	6.0	4.0
6	91	16	8.6	21	38	14	11	27	7.8	4.0	5.5	5.0
7	71	14	10	18	33	12	8.0	16	6.5	4.0	8.7	3.0
8	36	12	9.2	14	26	11	12	11	5.8	4.0	7.8	2.2
9	20	10	8.0	13	22	9.2	11	16	5.0	3.5	5.8	1.7
10	65	9.2	7.8	24	18	8.3	9.2	12	4.8	4.0	5.0	1.5
11	100	8.3	6.6	46	16	7.5	7.5	8.8	4.5	4.8	4.2	1.5
12	45	7.5	6.6	38	15	6.9	8.0	6.8	4.0	42	4.0	1.4
13	34	6.9	9.5	162	97	6.9	10	5.8	3.8	16	4.5	1.2
14	23	6.3	8.0	132	73	5.6	14	6.5	3.5	12	5.0	1.4
15	18	5.9	7.8	66	48	5.2	25	10	3.2	7.8	2.0	1.5
16	14	6.3	8.0	43	36	5.2	18	61	3.0	4.8	2.3	1.7
17	12	6.3	8.6	30	45	35	12	35	37	3.2	2.5	1.4
18	11	5.9	9.5	26	80	31	9.2	39	40	2.3	2.5	1.4
19	9.5	6.3	7.8	25	140	22	6.6	78	20	2.5	2.5	1.4
20	9.8	7.5	19	23	100	16	5.6	46	16	1.9	2.8	1.2
21	10	7.2	27	22	70	13	8.3	28	27	2.0	3.0	1.7
22	11	6.3	20	22	50	30	8.3	193	38	2.3	2.8	1.9
23	429	5.2	15	21	35	32	16	148	17	2.3	2.8	1.9
24	468	7.5	13	18	25	22	12	71	12	2.3	2.5	1.9
25	196	14	11	17	22	16	38	52	9.5	6.6	2.5	1.5
26	85	10	9.8	13	20	13	30	42	8.2	10	2.2	1.5
27	53	11	8.3	12	19	11	18	26	7.0	5.8	2.2	1.5
28	41	14	7.8	11	18	8.6	12	16	6.0	3.2	2.3	4.0
29	32	13	6.9	10	18	6.6	9.2	11	6.5	13	2.8	2.8
30	28	12	6.9	10	------	7.8	7.1	7.5	7.0	21	2.3	2.8
31	28	------	6.6	9.8	------	14	------	141	------	23	2.2	------
TOTAL	2,890.3	354.6	309.3	906.8	1,400.9	439.8	411.0	1,344.2	649.1	232.7	158.5	63.8
MEAN	93.2	11.8	9.98	29.3	48.3	14.2	13.7	43.4	21.6	7.51	5.11	2.13
MAX	468	30	27	162	140	35	38	193	229	42	26	5.0
MIN	9.5	5.2	6.6	5.9	8.9	5.2	5.6	5.8	3.0	1.9	2.0	1.2
CFSM	3.88	.49	.42	1.22	2.01	.59	.57	1.81	.90	.31	.21	.09
IN.	4.48	.55	.48	1.41	2.17	.68	.64	2.08	1.01	.36	.25	.10

CAL YR 1971 TOTAL 11,426.00 MEAN 31.3 MAX 468 MIN .43 CFSM 1.30 IN 17.71
WTR YR 1972 TOTAL 9,161.00 MEAN 25.0 MAX 468 MIN 1.2 CFSM 1.04 IN 14.20

PEAK DISCHARGE (BASE, 550 CFS)

NOTE.--No gage height record Oct. 23, 24.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23		12.26	700				

02053500 Ahoskie Creek at Ahoskie, N. C.

LOCATION.--Lat 36°16'50", long 77°00'00", Hertford County, on right bank 10 ft downstream from bridge on State Highway 350, 0.5 mile upstream from Seaboard Coast Line Railroad bridge, and 0.8 mile southwest of Ahoskie.

DRAINAGE AREA.--57 sq mi, approximately.

PERIOD OF RECORD.--January 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 17.46 ft above mean sea level (Soil Conservation Service bench mark). Prior to Jan. 4, 1963, at present site at datum 4.00 ft higher. Jan. 20, 1950, to May 24, 1951, nonrecording gage.

AVERAGE DISCHARGE.--22 years, 65.5 cfs (15.61 inches per year).

EXTREMES.--Current year: Maximum discharge, 946 cfs Oct. 23 (gage height, 9.76 ft); minimum daily, 6.4 cfs Sept. 19, 20.
Period of record: Maximum discharge, 2,580 cfs Oct. 5, 1964 (gage height, 10.72 ft); no flow at times during most years prior to canalization; minimum since canalization, 1.8 cfs June 17, 1967.
Flood of August 1940 reached a stage of 15.1 ft, present datum, from floodmark witnessed by local resident (discharge not determined).

REMARKS.--Records good. Entire basin above station canalized since July 1964. Excavation begun downstream in July 1962 and reached the station in December 1962.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	839	80	28	21	28	40	86	21	781	15	118	8.1
2	906	66	24	20	378	35	72	18	496	14	325	9.7
3	855	76	24	20	402	35	54	47	139	12	153	10
4	589	101	23	24	306	36	42	420	73	12	68	8.7
5	247	69	22	54	185	35	44	186	44	11	40	11
6	248	52	22	54	128	38	39	92	36	11	32	13
7	283	43	22	44	105	33	33	54	47	11	61	11
8	130	36	22	37	82	30	36	36	26	11	62	9.1
9	84	32	21	32	66	28	40	38	20	10	33	8.4
10	185	30	20	40	56	27	33	37	17	9.7	42	8.4
11	384	28	19	147	47	26	30	28	16	9.7	28	8.4
12	200	26	18	127	42	24	28	22	14	98	20	8.1
13	119	24	20	349	228	22	28	19	13	106	17	8.1
14	78	22	24	634	244	22	30	18	13	65	17	7.8
15	57	21	22	290	139	22	74	22	12	35	15	7.8
16	43	20	21	166	99	22	56	154	11	22	14	8.4
17	36	19	22	105	104	70	40	112	159	18	12	8.7
18	30	18	24	86	160	88	29	66	289	15	12	6.9
19	26	18	24	78	587	62	24	134	74	14	12	6.4
20	26	17	33	70	427	46	20	88	74	12	12	6.4
21	26	17	83	65	218	36	20	63	234	11	11	6.9
22	25	16	62	65	148	56	21	379	320	11	10	7.2
23	613	16	45	60	104	96	29	586	107	9.7	10	7.2
24	890	17	38	54	92	66	33	298	58	9.3	10	7.2
25	862	29	34	47	79	50	102	176	38	20	10	7.2
26	632	28	31	40	68	40	104	149	28	48	9.1	7.2
27	273	28	28	36	60	35	64	96	22	19	8.7	6.9
28	169	37	26	33	52	31	42	67	19	15	8.4	17
29	130	33	25	31	45	28	31	48	18	54	8.4	11
30	115	31	24	30	------	27	26	36	17	237	8.4	9.7
31	93	------	22	30	------	35	------	300	------	133	8.1	------
TOTAL	9,193	1,050	873	2,889	4,679	1,241	1,310	3,810	3,215	1,078.4	1,195.1	261.9
MEAN	297	35.0	28.2	93.2	161	40.0	43.7	123	107	34.8	38.6	8.73
MAX	906	101	83	634	587	96	104	586	781	237	325	17
MIN	25	16	18	20	28	22	20	18	11	9.3	8.1	6.4
CFSM	5.21	.61	.49	1.64	2.82	.70	.77	2.16	1.88	.61	.68	.15
IN.	6.00	.69	.57	1.89	3.05	.81	.85	2.49	2.10	.70	.78	.17

CAL YR 1971 TOTAL 31,164.7 MEAN 85.4 MAX 906 MIN 4.1 CFSM 1.50 IN 20.34
WTR YR 1972 TOTAL 30,795.4 MEAN 84.1 MAX 906 MIN 6.4 CFSM 1.48 IN 20.10

PEAK DISCHARGE (BASE, 720 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 2	1400	9.72	941	1-14	0100	7.52	735
10-23	1700	9.76	946	6- 1	0100	8.65	794

02053510 Ahoskie Creek tributary at Poor Town, N. C.

LOCATION.--Lat 36°16'29", long 77°00'38", Hertford County, on left bank 12 ft upstream from culvert on Secondary Road 1105, 1 mile southeast of Poor Town, and 1 mile upstream from mouth.

DRAINAGE AREA.--2.6 sq mi, approximately.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 30.86 ft above mean sea level (Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--9 years, 1.89 cfs (9.87 inches per year).

EXTREMES.--Current year: Maximum discharge, 286 cfs June 17 (gage height, 9.41 ft); minimum, 0.14 cfs May 13, several days in September (gage height, 1.56 ft).
Period of record: Maximum discharge, 286 cfs June 17, 1972 (gage height, 9.41 ft); no flow for part of each day Oct. 6, 11. 12, 1966, Nov. 3, 1967, result of temporary diversion.
No flow observed Aug. 16, 1961.

REMARKS.--Records good. Entire channel above and below station canalized and improved in December 1962. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	1.9	.50	.43	.78	.78	2.3	.25	12	.50	2.5	.22
2	41	1.4	.43	.43	20	.70	1.3	.25	2.5	.50	14	.19
3	11	3.4	.43	.38	8.7	1.1	.88	1.7	.88	.43	1.9	.19
4	5.0	2.4	.43	.78	6.2	1.0	.88	5.4	.50	.43	.70	.16
5	2.8	1.2	.43	1.5	3.0	1.0	1.1	1.6	.38	.43	.50	.29
6	8.0	1.0	.43	1.2	2.1	1.1	.78	.56	3.5	.43	.43	.16
7	3.6	.78	.50	.95	2.0	.95	.70	.33	5.4	.38	3.5	.14
8	1.6	.56	.50	.63	1.4	.78	1.2	.33	.88	.38	1.2	.14
9	1.0	.50	.50	.56	1.2	.70	.88	.38	.38	.38	.50	.14
10	16	.43	.50	2.4	.95	.63	.63	.29	.38	.43	2.6	.14
11	10	.43	.43	4.2	.95	.56	.56	.19	.38	.43	.56	.14
12	3.1	.38	.43	2.5	.95	.56	.56	.16	.33	7.0	.32	.14
13	1.5	.33	.88	24	7.2	.50	.56	.14	.33	4.8	.25	.14
14	1.0	.33	.63	11	3.9	.50	.78	.22	.33	2.0	.22	.14
15	.78	.33	.56	4.2	2.1	.50	1.0	.33	.33	.78	.22	.14
16	.65	.33	.50	2.3	1.5	.89	.63	4.5	.33	.50	.22	1.0
17	.65	.29	.50	1.6	3.9	5.4	.50	1.1	64	.38	.22	.19
18	.61	.29	.63	1.4	4.7	2.8	.38	.50	23	.33	.22	.14
19	.61	.25	.50	1.5	26	1.5	.38	.33	3.9	.33	.19	.14
20	.78	.33	1.8	1.3	7.2	1.0	.38	.38	7.3	.33	.19	.14
21	.71	.29	2.3	1.3	3.7	.88	.43	.33	50	.33	.16	.14
22	1.3	.25	1.2	1.3	2.5	3.6	.43	27	19	.33	.16	.14
23	83	.25	.88	1.2	1.8	2.3	.63	16	3.7	.33	.16	.14
24	19	.56	.63	1.0	1.9	1.2	.63	5.6	1.7	.33	.16	.14
25	10	.50	.63	.95	1.6	.88	1.4	4.5	1.0	4.2	.16	.14
26	8.2	.33	.56	.70	1.4	.63	1.2	3.7	.70	2.5	.16	.14
27	3.5	.77	.50	.70	1.2	.56	.56	2.0	.56	.50	.16	.20
28	2.5	.95	.50	.70	1.1	.50	.38	1.6	.50	.67	.16	1.0
29	3.0	.70	.43	.63	.95	.50	.29	1.4	.56	13	.16	.60
30	3.7	.56	.43	.63	------	.50	.29	1.2	.63	11	.16	.40
31	2.4	------	.43	.70	------	1.5	------	29	------	3.5	.16	------
TOTAL	316.99	22.02	20.00	73.07	120.88	36.00	22.62	111.27	205.38	57.86	32.20	7.12
MEAN	10.2	.73	.65	2.36	4.17	1.16	.75	3.59	6.85	1.87	1.04	.24
MAX	83	3.4	2.3	24	26	5.4	2.3	29	64	13	14	1.0
MIN	.61	.25	.43	.38	.78	.50	.29	.14	.33	.33	.16	.14
CFSM	3.92	.28	.25	.91	1.60	.45	.29	1.38	2.63	.72	.40	.09
IN.	4.54	.32	.29	1.05	1.73	.52	.32	1.59	2.94	.83	.46	.10

CAL YR 1971 TOTAL 947.48 MEAN 2.60 MAX 83 MIN .11 CFSM 1.00 IN 13.56
WTR YR 1972 TOTAL 1,025.41 MEAN 2.80 MAX 83 MIN .14 CFSM 1.08 IN 14.67

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 1	0630	6.42	149	6-17	2100	9.41	286
10-23	1430	6.58	155	6-21	1900	6.38	165
5-31	1800	5.40	126				

02068500 Dan River near Francisco, N. C.

LOCATION.--Lat 36°30'53", long 80°18'11", Stokes County, on left bank 200 ft upstream from bridge on State Highway 704, 700 ft downstream from Georges Mill, 0.2 mile downstream from Elk Creek, 3 miles east of Francisco, and 7.9 miles downstream from Little Dan River.

DRAINAGE AREA.--124 sq mi.

PERIOD OF RECORD.--August 1924 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder. Altitude of gage is 830 ft (from topographic map). Prior to Nov. 15, 1929, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--48 years, 185 cfs (20.26 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 7,680 cfs Oct. 25 (gage height, 9.44 ft); minimum, 58 cfs Sept. 27 (gage height, 1.19 ft); minimum daily, 75 cfs Sept. 23.
Period of record: Maximum discharge, 12,400 cfs Oct. 19, 1937 (gage height, 12.45 ft); minimum, 7.1 cfs Sept. 8, 1932 (gage height, 0.43 ft); minimum daily, 28 cfs Aug. 17, 18, 1963, Sept. 12, 1966.
Flood in 1916 reached a stage of about 15 ft, from information by local residents (discharge, 16,000 cfs).

REMARKS.--Records good. Considerable diurnal fluctuation and regulation from mills and powerplants above station. Talbott and Townes reservoirs above Pinnacles Hydroelectric Plant in Virginia, 28 miles above station, were completed in 1938 (see p. 143).

REVISIONS (WATER YEARS).--WSP 892: Drainage area. WSP 1303: 1938-50 (monthly runoff). WSP 1433: 1925-26, 1928-29, 1931, 1942, 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	312	200	135	216	178	211	212	228	276	233	138
2	259	319	176	135	216	205	223	225	211	239	252	163
3	201	978	181	158	316	222	195	354	205	252	276	155
4	173	536	191	183	312	248	202	487	191	284	249	128
5	172	407	168	194	236	245	219	296	151	937	266	276
6	191	374	163	191	219	219	208	243	183	584	202	143
7	131	344	403	178	197	173	189	210	148	442	191	113
8	113	326	348	138	213	181	387	280	142	397	233	148
9	126	316	275	138	200	176	231	350	176	380	176	160
10	190	312	266	145	178	170	207	282	184	363	183	148
11	150	305	269	213	158	208	213	260	156	363	133	88
12	159	302	239	228	183	200	412	227	135	376	170	93
13	146	298	233	688	312	158	336	232	179	358	202	155
14	162	233	186	922	191	213	338	951	140	346	158	143
15	164	158	181	348	210	205	317	851	178	322	168	126
16	218	163	213	292	191	202	272	419	181	262	158	115
17	167	197	216	292	205	239	273	345	182	225	138	128
18	125	202	210	254	230	205	301	318	230	249	194	88
19	151	205	186	222	239	176	295	291	140	230	176	117
20	171	194	191	208	230	155	289	292	312	245	150	135
21	166	165	178	242	194	181	276	255	4,690	216	108	78
22	180	158	173	225	170	399	332	251	1,370	219	115	77
23	375	194	178	200	200	271	285	286	613	230	148	75
24	701	225	160	173	222	240	254	268	452	210	158	78
25	3,420	210	133	219	295	219	261	265	411	213	176	77
26	827	176	128	216	302	209	238	245	388	186	168	81
27	460	189	165	216	205	175	203	217	371	176	131	88
28	382	191	183	213	173	189	197	187	371	150	219	124
29	316	210	155	194	163	173	180	184	456	170	178	1,020
30	337	208	135	191	------	183	187	244	376	262	140	557
31	316	------	143	200	------	200	------	320	------	225	133	------
TOTAL	10,815	8,407	6,226	7,551	6,376	6,417	7,731	9,847	13,150	9,387	5,582	5,015
MEAN	349	280	201	244	220	207	258	318	438	303	180	167
MAX	3,420	978	403	922	316	399	412	951	4,690	937	276	1,020
MIN	113	158	128	135	158	155	180	184	135	150	108	75
(†)	+15	-13	-2	-1	+3	+1	-3	0	+8	-5	-9	0

CAL YR 1971 TOTAL 75,758 MEAN 208 MAX 3,420 MIN 65 MEAN‡ 208 CFSM‡ 1.68 IN‡ 22.80
WTR YR 1972 TOTAL 96,504 MEAN 264 MAX 4,690 MIN 75 MEAN‡ 263 CFSM‡ 2.12 IN‡ 28.86

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-25	0900	9.44	7,680	5-15	0200	4.82	2,270
11- 3	1030	4.71	2,160	6-21	1000	9.32	7,530
1-13	2230	6.81	4,370	9-29	2100	6.09	3,570

† Change in contents, equivalent in cubic feet per second, in Talbott and Townes Reservoirs furnished by city of Danville, Va.

‡ Adjusted for change in contents.

02071000 Dan River near Wentworth, N. C.

LOCATION.--Lat 36°24'47", long 79°49'45", Rockingham County, on right bank 600 ft downstream from Settles Bridge on Secondary Road 2150, 3.5 miles northwest of Wentworth, 7.5 miles downstream from Mayo River, and 103.7 miles upstream from mouth.

DRAINAGE AREA.--1,050 sq mi, approximately.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October 1939, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 512.98 ft above mean sea level. Prior to Aug. 3, 1949, water-stage recorder at site 150 ft upstream at same datum.

AVERAGE DISCHARGE.--33 years, 1,176 cfs (15.21 inches per year).

EXTREMES.--Current year: Maximum discharge, 54,200 cfs June 22 (gage height, 31.60 ft, from high-water mark in well); minimum, 454 cfs Oct. 1; minimum gage height, 1.70 ft Sept. 27; minimum daily, 492 cfs Oct. 9.
Period of record: Maximum discharge, 54,200 cfs June 22, 1972 (gage height, 31.60 ft from high-water mark in well); minimum, 65 cfs Oct. 8, 1954 (gage height, 0.93 ft); minimum daily, 107 cfs Oct. 2, 1954.
Flood in 1908 reached a stage of 34.9 ft, from information by North Carolina State Highway Commission, and flood in 1937 reached a stage of 29.8 ft, from information by local resident.
REVISIONS.--The maximum discharge for the water year 1945 has been revised to 38,100 cfs Sept. 18, 1945 (gage height, 27.78 ft), superseding figure published in WSP 1032 and 1303.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Diurnal fluctuation and regulation at low flow caused by mills and Talbott and Townes reservoirs. (See p. 143).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	504	1,350	1,360	927	1,050	1,350	2,080	1,090	1,600	1,990	1,300	632
2	1,190	1,280	1,190	927	1,170	1,620	1,920	1,100	1,160	1,640	1,530	628
3	1,140	6,670	1,110	936	3,050	1,790	1,700	2,590	1,080	1,490	1,280	668
4	767	4,980	1,110	936	6,130	1,590	1,440	13,100	1,030	1,410	1,180	644
5	644	2,520	1,110	1,060	2,540	1,470	1,310	6,060	997	4,050	1,270	1,040
6	740	1,940	1,070	1,030	1,850	1,360	1,280	2,500	934	3,510	1,040	1,800
7	666	1,720	2,310	968	1,690	1,270	1,250	1,880	958	2,260	968	872
8	536	1,520	4,260	941	1,470	1,240	4,160	1,680	891	1,870	1,710	707
9	492	1,390	2,220	927	1,330	1,230	2,610	3,880	867	1,680	1,110	698
10	1,080	1,330	1,710	1,050	1,240	1,150	1,800	2,300	898	1,560	928	703
11	1,240	1,270	1,520	1,560	1,190	1,110	1,560	1,740	883	1,480	892	680
12	842	1,230	1,420	2,190	1,150	1,130	2,640	1,530	827	1,610	824	596
13	758	1,190	1,320	1,970	3,680	1,160	3,660	1,390	790	1,820	856	592
14	679	1,200	1,240	7,470	3,100	1,100	2,850	7,630	841	1,480	905	636
15	683	1,090	1,160	3,590	1,940	1,140	2,660	15,300	782	1,410	815	632
16	1,010	941	1,140	1,900	1,650	1,180	2,040	7,940	808	1,320	838	604
17	1,310	959	1,240	1,700	1,560	1,770	1,820	3,300	784	1,250	815	612
18	886	977	1,140	1,500	1,620	1,510	1,550	2,430	1,150	1,200	792	927
19	745	977	1,060	1,400	1,770	1,260	1,490	2,150	1,100	1,170	842	707
20	740	982	1,070	1,300	1,600	1,170	1,440	2,170	1,060	1,160	869	604
21	793	950	1,120	1,200	1,450	1,100	1,380	1,930	26,600	1,120	774	592
22	912	904	1,050	1,200	1,470	3,050	1,600	1,680	47,800	1,060	680	536
23	5,760	840	973	1,200	1,420	2,850	2,520	1,700	11,600	1,040	668	520
24	12,800	1,090	973	1,200	1,490	1,820	1,770	1,600	3,430	1,030	698	512
25	7,110	1,890	968	1,200	1,500	1,520	1,530	1,420	2,850	1,010	703	524
26	7,220	1,440	941	1,200	1,700	1,450	1,410	1,320	2,530	989	698	516
27	2,920	1,380	927	1,200	2,030	1,370	1,290	1,220	2,300	926	694	508
28	2,060	1,720	941	1,200	1,620	1,280	1,200	1,160	2,470	948	767	680
29	1,670	1,430	950	1,180	1,450	1,260	1,160	1,100	4,820	954	867	2,100
30	1,440	1,600	941	1,120	------	1,260	1,120	1,170	2,750	1,520	730	7,880
31	1,410	------	936	1,090	------	1,660	------	1,550	------	1,660	656	------
TOTAL	60,747	48,760	40,480	47,272	54,910	45,220	56,240	97,610	126,590	47,617	28,699	29,350
MEAN	1,960	1,625	1,306	1,525	1,893	1,459	1,875	3,149	4,220	1,536	926	978
MAX	12,800	6,670	4,260	7,470	6,130	3,050	4,160	15,300	47,800	4,050	1,710	7,880
MIN	492	840	927	927	1,050	1,100	1,120	1,090	782	926	656	508
CFSM	1.87	1.55	1.24	1.45	1.80	1.39	1.79	3.00	4.02	1.46	.88	.93
IN.	2.15	1.73	1.43	1.67	1.95	1.60	1.99	3.46	4.48	1.69	1.02	1.04

CAL YR 1971 TOTAL 519,656 MEAN 1,424 MAX 12,800 MIN 475 CFSM 1.36 IN 18.41
WTR YR 1972 TOTAL 683,495 MEAN 1,867 MAX 47,800 MIN 492 CFSM 1.78 IN 24.22

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-24	1230	17.91	14,400	5-15	0600	19.59	16,900
5- 4	1930	19.12	16,200	6-22	a0200	31.60	54,200

NOTE.--No gage-height record June 21-23.

a About

02074000 Smith River at Eden, N. C.

LOCATION.--Lat 36°31'31", long 79°45'57", Rockingham County, on right bank at Eden, 0.3 mile downstream from bridge on State Highway 14, 0.8 mile upstream from bridge on Secondary Road 1714, 1.2 miles south of Virginia-North Carolina State line, 1.3 miles downstream from Stuart Creek, and 3.9 miles upstream from mouth.

DRAINAGE AREA.--538 sq mi.

PERIOD OF RECORD.--October 1939 to current year. Prior to October 1970 published as "at Spray".

GAGE.--Water-stage recorder. Datum of gage is 539.56 ft above mean sea level.

AVERAGE DISCHARGE.--33 years, 595 cfs (15.02 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 24,800 cfs June 21 (gage height, 16.24 ft); minimum, 128 cfs Nov. 22 (gage height, 1.65 ft); minimum daily, 227 cfs Jan. 9.
Period of record: Maximum discharge, 45,600 cfs Aug. 15, 1940 (gage height, 19.28 ft), from rating curve extended above 12,000 cfs on basis of computation of peak flow over dam 1.5 miles downstream; minimum, 38 cfs Aug. 7, 1967; minimum daily, 46 cfs Aug. 14, 1967.

REMARKS.--Records good. Flow regulated since August 1950 by Philpott Reservoir 40 miles upstream (usable capacity, 6,325,000,000 cu ft). Some additional regulation by hydroelectric plant at Martinsville, Va. 18 miles upstream. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1433: 1946. WRD N. C. 1968: 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	384	926	390	486	540	725	990	375	1,140	1,320	678	483
2	660	926	474	248	576	755	344	665	1,020	521	1,050	487
3	438	2,000	468	262	1,360	789	390	1,530	989	534	1,190	289
4	258	1,290	450	414	2,570	700	558	5,930	359	1,070	1,060	291
5	372	1,450	285	426	1,270	351	558	1,470	350	4,820	1,400	453
6	327	1,000	301	408	570	369	558	1,360	845	1,810	457	718
7	370	947	1,200	390	510	813	570	596	858	1,990	434	540
8	360	961	1,300	396	654	823	1,280	574	880	1,850	1,230	508
9	350	905	1,020	227	576	807	630	1,760	842	1,830	997	500
10	760	835	897	277	612	800	500	1,290	862	1,780	978	359
11	550	912	870	492	558	771	900	1,160	322	1,770	959	292
12	510	570	316	504	558	297	1,200	1,110	311	1,930	952	709
13	420	912	360	492	2,080	280	1,800	1,080	462	1,210	313	760
14	410	265	744	2,490	1,040	505	2,800	3,080	480	1,070	361	695
15	366	273	751	996	926	481	1,660	2,990	474	1,060	526	701
16	414	842	751	540	1,130	493	642	1,710	473	368	554	675
17	254	849	765	444	1,090	753	550	1,460	470	470	533	317
18	254	842	730	681	1,090	577	700	1,290	531	1,020	547	409
19	534	849	262	667	1,040	368	1,000	1,330	486	1,030	559	487
20	498	849	289	636	426	330	1,200	1,360	822	1,030	670	488
21	265	230	558	654	426	452	1,200	607	16,700	1,000	363	471
22	540	248	564	618	730	1,050	1,160	534	4,950	1,010	522	490
23	2,600	751	558	344	751	710	713	1,010	3,250	347	517	477
24	2,850	870	546	338	765	552	536	1,010	4,410	340	510	291
25	1,290	1,010	564	737	772	509	827	905	4,290	913	504	234
26	1,820	396	258	716	786	355	1,040	870	3,980	885	499	435
27	1,740	919	244	737	504	364	1,030	843	1,900	894	296	485
28	1,580	498	510	793	474	948	1,020	381	2,140	921	330	573
29	1,420	414	492	793	751	942	1,020	380	3,740	932	531	1,210
30	1,090	723	504	311	------	965	324	400	2,450	731	496	1,700
31	940	------	498	311	------	990	------	1,270	------	582	489	------
TOTAL	24,624	24,462	17,919	17,828	25,135	19,624	27,700	40,330	60,786	37,038	20,505	16,527
MEAN	794	815	578	575	867	633	923	1,301	2,026	1,195	661	551
MAX	2,850	2,000	1,300	2,490	2,570	1,050	2,800	5,930	16,700	4,820	1,400	1,700
MIN	254	230	244	227	426	280	324	375	311	340	296	234
(†)	+139	-127	-40	+11	+62	+9	+34	+22	+13	-34	-37	+13

CAL YR 1971 TOTAL 251,993 MEAN 690 MAX 4,740 MIN 170 MEAN‡ 689 CFSM‡ 1.28 IN‡ 17.38
WTR YR 1972 TOTAL 332,478 MEAN 908 MAX 16,700 MIN 227 MEAN‡ 913 CFSM‡ 1.70 IN‡ 23.14

† Change in contents, equivalent in cubic feet per second, in Philpott Reservoir furnished by Corps of Engineers.

‡ Adjusted for change in contents.

02075160 Moon Creek near Yanceyville, N. C.

LOCATION.--Lat 36°28'13", long 79°23'00", Caswell County, on right bank at downstream side of bridge on Secondary Road 1321, 0.5 mile downstream from East Prong, and 5.5 miles northwest of Yanceyville.

DRAINAGE AREA.--29.9 sq mi.

PERIOD OF RECORD.--Annual maximum, water years 1954-61. October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 420 ft (by barometer). July 2, 1953, to Sept. 30, 1961, crest-stage gage at upstream side of bridge at datum 8.46 ft higher.

AVERAGE DISCHARGE.--11 years, 22.9 cfs (10.40 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,010 cfs June 21 (gage height, 13.81 ft), result of dam failure; minimum, 4.1 cfs Aug. 27, 28; minimum gage height, 1.69 ft June 16, 17.
Period of record: Maximum discharge, 4,010 cfs June 21, 1972 (gage height, 13.81 ft), result of dam failure; no flow for part of July 25, 1966 (result of temporary diversion); minimum unregulated, 0.18 cfs Oct. 3, 4, 1968.

REMARKS.--Records good. Occasional regulation by recreation lake upstream from station. Occasional diversion for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	24	24	14	14	26	36	15	53	15	19	4.8
2	140	24	24	15	27	25	29	14	25	13	13	4.8
3	34	62	22	15	155	31	25	49	14	11	9.4	4.7
4	16	50	22	16	304	25	23	130	15	10	8.6	4.6
5	14	29	22	17	98	23	21	44	13	14	7.0	16
6	12	23	21	16	51	21	20	25	12	14	6.4	21
7	11	22	28	14	43	21	20	19	12	12	6.5	9.5
8	10	19	36	13	33	23	110	22	11	11	6.0	6.5
9	11	16	28	14	29	23	51	41	10	9.8	5.7	5.6
10	161	17	25	18	26	21	32	24	10	9.4	5.2	5.1
11	87	17	22	25	26	20	27	18	10	8.9	5.0	4.8
12	27	16	20	26	26	20	88	16	10	15	5.0	4.7
13	18	16	19	26	303	19	82	14	9.5	25	4.9	4.6
14	15	16	18	29	172	19	174	251	9.2	14	4.8	4.6
15	14	15	18	24	56	19	92	260	8.7	11	4.7	4.3
16	19	15	17	18	39	21	64	121	8.3	9.4	5.8	4.4
17	19	15	18	16	35	29	41	50	8.3	8.7	6.5	4.5
18	18	16	16	17	37	24	29	34	29	8.3	7.5	5.0
19	20	15	15	19	41	21	25	30	28	7.9	7.5	5.0
20	24	15	16	19	33	19	22	32	26	7.6	8.3	4.6
21	26	14	17	22	30	19	21	29	1,950	7.2	6.0	4.5
22	26	14	16	21	29	35	33	26	590	6.8	5.3	4.6
23	254	13	15	19	28	30	42	25	62	6.3	5.1	4.5
24	289	63	15	18	31	23	29	23	30	5.9	4.9	4.5
25	182	193	15	16	29	21	24	19	20	6.0	4.7	4.5
26	90	64	15	15	31	22	21	17	17	5.5	4.7	4.5
27	44	55	14	15	30	21	18	16	16	5.9	4.5	4.5
28	32	55	14	16	27	20	16	16	18	18	12	8.8
29	27	40	14	15	28	19	16	15	24	11	11	69
30	25	40	15	15	------	19	16	17	19	10	6.7	218
31	24	------	14	15	------	30	------	25	------	13	5.2	------
TOTAL	1,759	995	600	558	1,811	709	1,247	1,437	3,072.0	330.6	216.9	456.5
MEAN	56.7	33.2	19.4	18.0	62.4	22.9	41.6	46.4	102	10.7	7.00	15.2
MAX	289	193	36	29	304	35	174	260	1,950	25	19	218
MIN	10	13	14	13	14	19	16	14	8.3	5.5	4.5	4.3
CFSM	1.90	1.11	.65	.60	2.09	.77	1.39	1.55	3.41	.36	.23	.51
IN.	2.19	1.24	.75	.69	2.25	.88	1.55	1.79	3.82	.41	.27	.57

CAL YR 1971 TOTAL 10,903.5 MEAN 29.9 MAX 486 MIN 1.6 CFSM 1.00 IN 13.57
WTR YR 1972 TOTAL 13,192.0 MEAN 36.0 MAX 1,950 MIN 4.3 CFSM 1.20 IN 16.41

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	2200	7.60	450	5-14	2300	7.92	536
2- 4	0430	7.63	458	6-21	1730	13.81	4,010
2-13	1630	7.60	450				

02077200 Hyco Creek near Leasburg, N. C.

LOCATION.--Lat 36°24'07", long 79°12'13", Caswell County, on right bank 10 ft upstream from bridge on U. S. Highway 158, 1.5 miles upstream from Kilgore Creek, and 2.5 miles west of Leasburg.

DRAINAGE AREA.--44.0 sq mi.

PERIOD OF RECORD.--July 1964 to current year. Prior to October 1968 published as North Hyco Creek near Leasburg.

GAGE.--Water-stage recorder. Datum of gage is 400.08 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 34.7 cfs (10.72 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,540 cfs June 21 (gage height, 35.98 ft); minimum, 0.88 cfs Aug. 27, 28 (gage height, 24.82 ft).
Period of record: Maximum discharge, 2,540 cfs June 21, 1972 (gage height, 35.98 ft); no flow at times, most years.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	36	52	26	21	40	58	19	15	15	15	1.7
2	352	34	40	21	27	38	50	17	12	13	13	1.6
3	170	172	36	20	371	36	38	57	10	11	8.8	1.4
4	52	104	36	20	385	32	34	101	9.2	10	7.6	1.2
5	36	59	36	20	120	30	32	46	7.3	11	49	12
6	32	46	34	21	80	26	30	30	6.8	13	26	59
7	26	40	58	19	68	24	29	25	6.5	11	13	16
8	18	35	117	18	48	26	106	24	7.0	9.6	9.5	7.8
9	16	30	62	17	39	26	78	36	5.0	8.3	6.8	5.6
10	342	26	52	40	37	23	50	21	5.0	7.3	5.2	3.9
11	386	22	46	35	35	21	40	17	4.5	6.3	4.1	3.2
12	82	22	40	38	33	20	92	17	4.1	7.8	3.5	3.0
13	48	22	38	25	440	21	130	15	3.7	19	3.4	2.6
14	37	20	34	19	271	21	201	20	3.6	10	2.8	2.5
15	29	19	32	18	104	20	89	160	3.4	7.8	2.8	2.1
16	27	18	30	17	69	23	62	184	3.0	5.8	2.5	2.1
17	30	17	55	16	56	40	52	82	3.0	2.5	2.3	2.5
18	23	16	36	16	53	30	43	49	3.9	1.0	2.3	2.6
19	20	15	28	16	71	25	36	38	9.9	9.0	2.6	6.5
20	23	14	35	16	63	22	32	40	6.5	8.0	2.3	4.1
21	26	13	50	50	52	20	30	32	588	6.3	2.0	3.4
22	28	12	45	30	54	56	38	28	958	5.0	1.8	3.0
23	275	12	38	27	48	50	49	26	96	4.1	1.3	2.9
24	404	18	39	45	59	34	36	24	49	3.7	1.3	2.5
25	335	250	37	35	54	31	31	27	36	3.2	1.2	2.3
26	214	150	34	27	59	30	28	21	26	2.3	1.1	2.3
27	108	120	32	24	59	29	25	16	21	1.9	1.0	2.1
28	68	160	30	23	49	27	23	15	18	2.8	1.3	5.4
29	54	70	27	23	44	26	21	14	24	5.6	3.9	18
30	46	65	26	24	------	26	20	13	19	14	3.5	138
31	41	------	26	22	------	34	------	15	------	17	2.1	------
TOTAL	3,389	1,637	1,281	768	2,869	907	1,583	1,229	1,964.4	252.3	203.1	321.3
MEAN	109	54.6	41.3	24.8	98.9	29.3	52.8	39.6	65.5	8.14	6.55	10.7
MAX	404	250	117	50	440	56	201	184	958	19	49	138
MIN	16	12	26	16	21	20	20	13	3.0	1.0	1.0	1.2
CFSM	2.48	1.24	.94	.56	2.25	.67	1.20	.90	1.49	.19	.15	.24
IN.	2.87	1.38	1.08	.65	2.43	.77	1.34	1.04	1.66	.21	.17	.27

CAL YR 1971 TOTAL 20,512.1 MEAN 56.2 MAX 887 MIN 1.1 CFSM 1.28 IN 17.34
WTR YR 1972 TOTAL 16,404.1 MEAN 44.8 MAX 958 MIN 1.0 CFSM 1.02 IN 13.87

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-21	2400	35.98	2,540				

02077240 Double Creek near Roseville, N. C.

LOCATION.--Lat 36°21'44", long 79°05'48", Person County, on left bank 75 ft downstream from bridge on Secondary Road 1166, 1.0 mile upstream from Mill Creek, and 3.0 miles northwest of Roseville.

DRAINAGE AREA.--7.47 sq mi.

PERIOD OF RECORD.--May 1964 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 450.39 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 4.82 cfs (8.76 inches per year).

EXTREMES.--Current year: Maximum discharge, 518 cfs July 12 (gage height, 3.92 ft); minimum, 0.66 cfs Aug. 26, 27, Sept. 1, 4, 5 (gage height, 1.35 ft).
Period of record: Maximum discharge, 1,060 cfs (revised) Feb. 28, 1966 (gage height, 5.03 ft); minimum, 0.03 cfs Oct. 3, 4, 5, 7, 1968, Oct. 6, 7, 1970.
REVISIONS.--The figures of maximum discharge for some water years have been revised, as shown in the following table. They supercede figures published in WRD N. C. as indicated.

WRD	Water year	Date	Discharge (cfs)	Gage height (feet)
1965	1964	Aug. 3, 1964	598	4.12
1965	1965	Feb. 7, 1965	724	4.41
1966	1966	Feb. 28. 1966	1,060	5.03
1967	1967	Aug. 27, 1967	350	3.50
1968	1968	May 27, 1968	892	4.74
1969	1969	Apr. 18, 1969	618	4.17
1970	1970	Feb. 17, 1970	264	3.27
1971	1971	Feb. 8, 1971	598	4.12

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report. Recording rain gage located at station.

REVISIONS.--Revised figures of discharge, in cubic feet per second, for high-water periods in the water years 1964-71 superceding thos published in WRD N. C. 1965-71 are given herewith:

Date	Discharge	Date	Discharge	Date	Discharge
1964		1966		1966-Con.	
Aug. 3	59	Feb. 13	99	Sept. 21	69
		28	208		
1965		Aug. 9	69	1968	
Feb. 7	152	Sept. 20	18	May 27	229

Month	Cfs-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
August 1964.....	128.4	59	0.7	4.14	0.55	0.64
February 1965.....	403.7	152	4.9	14.4	1.93	2.01
Water year 1964-65.....	2,142.0	152	.6	5.87	.79	1.07
Calendar year 1965.....	1,767.7	152	.6	4.84	.65	.88
February 1966.....	609.8	208	2.5	21.8	2.92	3.03
August.....	129.8	69	.4	4.19	.56	.65
September.....	115.8	69	.3	3.86	.52	.58
Water year 1965-66.....	1,594.6	208	.2	4.37	.58	.79
Calendar year 1966.....	1,708.8	208	.2	4.68	.63	.85
May 1968.....	356.3	229	1.6	11.5	1.54	1.77
Water year 1967-68.....	1,850.54	229	.06	5.06	.68	.92
Calendar year 1968	1,589.94	229	.03	4.34	.58	.79

Revised peak discharge.--1964: Aug. 3 (2030) 598 cfs (4.12 ft).
1964-65: Oct. 4 (14.30) 350 cfs (3.50 ft); Feb. 7 (1630) 724 cfs (4.41 ft); Mar. 4 (2100) 185 cfs (3.00 ft); Mar. 17 (2300) 264 cfs (3.27 ft); Apr. 27 (0700) 231 cfs (3.17 ft); July 12 (0100) 282 cfs (3.32 ft); July 17 (0700) 374 cfs (3.56 ft).
1965-66: Feb. 13 (1300) 342 cfs (3.48 ft); Feb. 28 (1500) 1,060 cfs (5.03 ft); Mar. 4 (0800) 510 cfs (3.90 ft); Aug. 9 (1300) 639 cfs (4.22 ft); Sept. 21 (0100) 666 cfs (4.28 ft).
1966-67: Aug. 27 (2100) 350 cfs (3.50 ft).
1967-68: Dec. 10 (1900) 195 cfs (3.04 ft); Dec. 28 (1530) 322 cfs (3.43 ft); Jan. 13 (2300) 219 cfs (3.13 ft); Mar. 12 (1530) 526 cfs (3.94 ft); May 27 (0700) 892 cfs (4.74 ft).
1968-69: Mar. 7 (0315) 268 cfs (3.28 ft); Mar. 19 (0630) 172 cfs (2.95 ft); Apr. 18 (1300) 618 cfs (4.17 ft).
1969-70: Feb. 17 (0400) 264 cfs (3.27 ft).
1970-71: Nov. 12 (2300) 318 cfs (3.42 ft); Nov. 15 (0115) 278 cfs (3.31 ft); Feb. 7 (1630) 502 cfs (3.88 ft); Feb. 8 (1515) 598 cfs (4.12 ft); Mar. 3 (0915) 195 cfs (3.04 ft); May 16 (0245) 268 cfs (3.28 ft); May 29 (0045) 222 cfs (3.14 ft); Aug. 27 (1415) 470 cfs (3.80 ft).

02077240 Double Creek near Roseville, N. C.--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	5.6	7.2	3.9	3.4	6.5	7.2	3.9	2.9	2.3	1.8	.78
2	24	5.2	6.5	4.2	23	6.2	5.9	3.4	2.5	2.1	1.5	.93
3	11	21	6.2	3.9	75	6.2	5.2	7.2	2.3	1.8	1.5	.78
4	5.5	11	.2	3.9	31	5.9	5.2	5.2	2.3	1.5	2.5	.66
5	4.2	6.9	5.7	4.6	16	5.6	5.2	4.4	2.3	2.3	12	9.6
6	4.6	5.9	5.6	5.9	12	5.2	4.6	4.2	2.1	2.1	2.3	3.0
7	3.0	5.5	14	3.7	10	4.9	4.6	3.9	2.1	1.8	1.8	1.5
8	2.5	4.7	13	3.7	7.7	5.6	11	4.2	1.9	1.5	1.5	1.1
9	2.8	4.3	9.1	3.7	6.9	4.9	6.5	5.2	1.8	1.5	1.3	1.1
10	87	4.4	7.7	4.9	5.2	4.6	5.6	3.7	2.1	1.5	1.1	.93
11	18	4.1	6.9	5.6	5.9	4.2	5.2	3.4	1.8	1.5	1.1	.78
12	9.1	3.9	5.2	4.9	6.2	4.5	12	3.4	1.6	33	1.1	.78
13	6.2	3.7	5.9	6.9	58	4.6	11	3.2	1.6	10	1.1	.78
14	4.2	3.5	5.6	7.2	14	4.6	44	25	1.6	3.7	1.3	.78
15	3.3	3.3	5.2	5.6	12	4.2	18	16	1.8	2.7	1.1	.78
16	3.4	3.3	5.6	4.2	9.1	4.9	12	11	1.6	2.5	.93	.78
17	3.0	3.3	7.7	4.6	8.6	5.9	9.1	5.9	1.6	3.0	.93	.93
18	2.7	3.2	5.9	4.6	8.2	4.6	7.7	5.6	2.1	2.1	2.3	2.6
19	2.6	3.1	5.2	4.9	12	4.2	6.6	4.9	1.6	2.1	1.3	1.1
20	3.7	3.2	6.6	4.2	8.6	4.9	6.2	4.9	2.6	2.1	1.3	.93
21	4.2	3.0	7.2	4.9	7.7	4.2	5.6	4.6	47	1.6	.93	1.1
22	3.8	2.9	5.9	4.6	7.7	6.6	4.2	4.0	13	1.6	.93	1.3
23	61	2.8	5.2	4.6	7.2	6.2	7.7	4.2	5.9	1.5	.93	1.3
24	34	49	5.2	4.2	9.6	5.2	6.6	3.9	4.2	1.5	.78	1.3
25	99	33	4.9	3.9	6.2	4.9	5.6	3.7	3.4	1.3	.78	1.1
26	22	15	4.9	3.7	9.6	4.9	5.2	3.4	2.8	1.3	.78	.93
27	14	20	4.6	3.7	8.6	4.6	4.6	3.2	2.5	1.3	.66	1.3
28	10	15	4.6	3.9	7.7	4.6	4.6	3.2	2.5	1.3	2.6	3.0
29	7.2	12	4.2	3.7	6.9	4.2	4.2	3.2	2.8	1.6	1.1	5.9
30	6.5	10	4.6	4.2	------	4.2	4.2	2.9	2.5	1.8	.93	14
31	5.9	------	4.2	3.7	------	6.9	------	2.9	------	2.1	.78	------
TOTAL	506.0	270.6	197.6	138.2	411.0	160.1	244.1	173.4	126.6	98.1	51.16	62.05
MEAN	16.3	9.03	6.37	4.46	14.2	5.16	8.14	5.59	4.22	3.16	1.65	2.07
MAX	99	48	14	7.2	75	6.9	44	25	47	33	12	14
MIN	2.5	2.8	4.2	3.7	3.4	3.9	4.2	2.9	1.6	1.3	.66	.66
CFSM	2.18	1.21	.28	.60	1.90	.69	1.11	.75	.56	.42	.22	.28
IN.	2.52	1.35	.98	.69	2.05	.80	1.24	.86	.63	.49	.25	.31

CAL YR 1971 TOTAL 2,871.92 MEAN 7.87 MAX 113 MIN .66 CFSM 1.05 IN 14.30
WTR YR 1972 TOTAL 2,444.11 MEAN 6.68 MAX 99 MIN .66 CFSM .89 IN 12.17

PEAK DISCHARGE (BASE, 170 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 1	1700	3.13	219	2- 3	1615	3.46	334
10-10	0630	3.66	414	2-13	0615	3.09	208
10-25	0115	3.73	442	6-21	1530	2.97	178
11-24	2030	3.53	362	7-12	2030	3.92	518

02077250 South Hyco Creek near Roseville, N. C.

LOCATION.--Lat 36°23'12", long 79°06'22", Person County, on right bank at downstream side of bridge on U. S. Highway 158, 1.2 miles downstream from Double Creek, and 4.2 miles northwest of Roseville.

DRAINAGE AREA.--55 sq mi, approximately.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1964-66. October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 400.05 ft above mean sea level.

AVERAGE DISCHARGE.--6 years, 42.0 cfs (10.37 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,770 cfs June 21 (gage height, 21.74 ft); minimum, 2.1 cfs Sept. 4, 5 (gage height, 13.05 ft).
Period of record: Maximum discharge, 2,770 cfs June 21, 1972 (gage height, 21.74 ft); no flow Aug. 24 to Oct. 22, 1968, Sept. 23, 24, Oct. 9-14, 1970.
No flow observed many days in July and September 1966.

REMARKS.--Records excellent. Water quality records for the current year are published in Part 2 of this report. Recording rain gage located at station.

REVISIONS (WATER YEARS).--WRD N. C. 1968: 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	40	59	23	23	44	62	22	15	15	16	2.4
2	644	37	47	22	74	42	49	22	13	13	11	2.4
3	148	154	42	21	328	42	39	33	11	11	8.6	2.4
4	64	110	42	21	871	38	36	71	9.8	9.2	7.6	2.2
5	43	58	41	20	178	35	36	44	8.6	12	122	29
6	44	46	40	22	98	31	31	29	8.3	14	37	54
7	38	41	57	21	81	29	30	25	8.3	12	17	15
8	24	35	162	20	59	31	105	24	6.9	9.8	12	8.6
9	20	31	72	19	49	30	75	37	6.9	8.3	9.0	6.9
10	780	28	58	50	43	26	49	25	7.2	7.6	7.2	5.7
11	524	26	50	45	43	26	44	19	6.9	6.6	6.0	5.0
12	112	25	44	47	42	26	75	18	6.0	188	5.4	4.4
13	59	24	40	35	250	26	122	16	5.7	205	5.0	4.2
14	45	23	36	25	500	26	262	126	5.7	31	6.0	3.8
15	36	22	32	21	116	24	145	198	5.2	15	5.0	3.6
16	32	22	34	20	75	24	75	216	5.0	11	4.2	3.4
17	34	20	58	19	65	42	58	81	4.7	38	4.2	3.4
18	27	19	48	19	61	33	46	47	9.4	18	10	14
19	23	18	35	18	86	27	41	37	8.6	12	6.3	9.4
20	38	17	37	18	75	26	38	35	9.8	13	5.4	5.2
21	26	16	56	60	58	25	36	32	952	9.8	4.2	4.4
22	74	15	50	45	61	57	48	30	956	8.6	3.6	5.4
23	365	14	42	30	53	53	59	26	93	7.6	3.2	5.2
24	509	96	41	50	68	38	46	26	46	6.6	2.9	4.7
25	923	752	41	35	61	32	37	24	34	6.0	2.7	4.2
26	364	170	40	28	68	32	33	20	26	5.4	2.4	4.0
27	152	136	35	26	66	30	30	16	20	4.7	2.9	4.1
28	84	184	31	26	56	29	27	16	19	6.3	6.9	14
29	61	92	29	26	43	28	26	15	23	8.0	7.2	24
30	43	82	26	27	------	28	24	15	18	12	3.8	136
31	46	------	24	26	------	38	------	15	------	14	2.9	------
TOTAL	5,476	2,353	1,449	885	3,651	1,018	1,784	1,360	2,349.0	738.5	347.6	391.0
MEAN	177	78.4	46.7	28.5	126	32.8	59.5	43.9	78.3	23.8	11.2	13.0
MAX	923	752	162	60	871	57	262	216	956	205	122	136
MIN	20	14	24	18	23	24	24	15	4.7	4.7	2.4	2.2
CFSM	3.22	1.43	.85	.52	2.29	.60	1.08	.80	1.42	.43	.20	.24
IN.	3.70	1.59	.98	.60	2.47	.69	1.21	.92	1.59	.50	.24	.26

CAL YR 1971 TOTAL 27,518.3 MEAN 75.4 MAX 1,280 MIN 1.0 CFSM 1.37 IN 18.61
WTR YR 1972 TOTAL 21,802.1 MEAN 59.6 MAX 956 MIN 2.2 CFSM 1.08 IN 14.75

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 2	0730	17.94	1,020	2- 4	Unknown	19.20	1,530
10-10	1930	19.14	1,510	6-21	2230	21.74	2,770
10-25	1400	19.04	1,470	7-12	2300	17.80	960
11-25	0830	18.28	1,160				

02077300 Hyco River at McGehees Mill, N. C.

LOCATION.--Lat 36°31'02", long 79°01'42", Person County, on left bank 200 ft downstream from bridge on Secondary Road 1322, at McGehees Mill, and 1.7 miles downstream from Hyco Lake.

DRAINAGE AREA.--191 sq mi.

PERIOD OF RECORD.--August 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 349.78 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 126 cfs (adjusted for storage) (8.96 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,420 cfs June 22 (gage height, 15.15 ft); minimum, 8.9 cfs Sept. 15-27; minimum gage height, 2.63 ft June 6; minimum daily discharge, 8.9 cfs Sept. 16-26.
Period of record: Maximum discharge, 3,870 cfs Mar. 1, 1966, maximum gage height, 15.58 ft Mar. 13, 1968; minimum discharge, 1.1 cfs Oct. 9, 1964 (gage height, 2.01 ft); minimum daily, 1.3 cfs Sept. 30, 1964.
Flood in 1945 reached a stage of 24.8 ft, from information by local resident (discharge not determined).

REMARKS.--Records good. Flow regulated since September 1964 by Hyco Lake (see p. 143). Change in contents in Hyco Lake includes diversions from lake by city of Roxboro for municipal water supply (emergency), most of which is returned downstream from station. No diversions during current year. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	178	324	57	46	220	151	80	63	84	19	9.7
2	483	156	246	63	105	204	169	74	47	72	29	9.7
3	670	223	191	53	412	181	152	98	36	63	30	9.3
4	450	345	169	58	1,380	152	137	294	30	49	14	9.3
5	288	270	147	68	1,120	142	111	292	21	50	15	13
6	198	197	138	59	657	120	104	211	23	47	14	21
7	136	165	162	60	441	108	94	155	38	47	14	41
8	94	123	278	44	321	103	188	125	39	54	14	40
9	66	105	308	44	246	89	279	156	44	53	16	39
10	588	93	266	64	192	84	258	123	43	51	20	39
11	1,120	83	218	88	162	76	208	94	43	51	16	29
12	824	75	184	100	140	80	216	71	42	62	11	16
13	478	69	162	121	586	71	336	60	40	274	11	16
14	302	58	135	131	1,110	65	740	476	36	222	11	16
15	197	60	135	135	794	72	884	1,030	33	151	21	14
16	149	57	123	104	541	82	637	1,020	32	100	38	8.9
17	126	52	118	94	398	143	450	688	34	97	31	8.9
18	94	52	124	78	327	150	344	414	34	95	31	8.9
19	75	62	108	76	338	121	281	272	33	77	27	8.9
20	71	47	104	70	304	104	237	215	34	68	27	8.9
21	75	42	114	76	271	98	185	177	673	53	26	8.9
22	78	32	104	89	246	143	171	149	3,020	49	21	8.9
23	450	26	99	98	219	175	199	133	1,570	45	19	8.9
24	1,040	106	99	95	236	150	195	120	541	42	19	8.9
25	1,510	744	90	88	227	124	164	107	303	42	13	8.9
26	1,410	832	92	65	236	115	140	72	208	41	9.3	8.9
27	899	655	83	58	260	106	119	55	159	41	9.3	9.3
28	585	612	84	58	263	98	103	51	129	23	9.7	10
29	393	508	71	56	238	94	93	50	125	12	9.7	11
30	284	431	87	58	------	85	86	55	106	12	9.7	12
31	214	------	66	53	------	98	------	63	------	16	9.7	------
TOTAL	13,420	6,458	4,629	2,361	11,816	3,653	7,431	6,980	7,579	2,143	564.4	462.2
MEAN	433	215	149	76.2	407	118	248	225	253	69.1	18.2	15.4
MAX	1,510	832	324	135	1,380	220	884	1,030	3,020	274	38	41
MIN	66	26	66	44	46	65	86	50	21	12	9.3	8.9
(†)	+18	+6	-13	-1	+8	-3	-4	0	-2	-16	-27	+9

CAL YR 1971 TOTAL 82,070.4 MEAN 225 MAX 3,230 MIN 7.8 MEAN ‡ 225 CFSM ‡ 1.18 IN ‡ 16.06
WTR YR 1972 TOTAL 67,496.6 MEAN 184 MAX 3,020 MIN 8.9 MEAN ‡ 182 CFSM ‡ 0.95 IN ‡ 12.93

† Change in contents, equivalent in cubic feet per second in Hyco Lake.
‡ Adjusted for change in contents.

02080500 Roanoke River at Roanoke Rapids, N. C.

LOCATION.--Lat 36°28'04", long 77°37'18", Halifax County, on right bank 1.2 miles downstream from bridge on State Highway 48 at Roanoke Rapids, 2.5 miles upstream from Chockoyotte Creek, 2.8 miles downstream from Roanoke Rapids dam, and 133.6 miles upstream from mouth in Albemarle Sound.

DRAINAGE AREA.--8,410 sq mi, approximately.

PERIOD OF RECORD.--December 1911 to current year. Prior to January 1933, published as "at Old Gaston". Records published for both sites February 1930 to December 1932. Gage-height records collected at site of auxiliary gage since November 1890 are contained in reports of National Weather Service, NOAA, U. S. Department of Commerce.

GAGE.--Water-stage recorder. Datum of gage is 43.84 ft above mean sea level. Dec. 7, 1911, to Nov. 21, 1921, and Apr. 7, to Dec. 31, 1932, nonrecording gage and Nov. 21, 1921, to Apr. 7, 1932, water-stage recorder, both at site 9 miles upstream at different datum. Since Aug. 6, 1941, auxiliary water-stage recorder, 3.6 miles downstream from base gage.

AVERAGE DISCHARGE.--60 years (1912-72) 7,925 cfs (adjusted for storage) (12.80 inches per year).

EXTREMES.--Current year: Maximum discharge, 24,600 cfs June 28 (gage height, 9.55 ft); minimum, 854 cfs Jan. 8, 9, 10, (gage height, 1.86 ft); minimum daily, 976 cfs Jan. 23.
Period of record: Maximum discharge, 261,000 cfs Aug. 18, 1940 (gage height, 39.0 ft, from floodmarks); minimum, about 250 cfs Dec. 16, 1955; minimum daily, 472 cfs Sept. 21, 1932.
Flood in November 1877 (discharge, 212,000 cfs), reached a stage of about 2 ft lower at Old Gaston than flood in August 1940 which was 21.5 ft. Flood in August 1940 is the maximum known since at least 1771.

REMARKS.--Records excellent. Flow regulated since August 1950 by Philpott Reservoir on Smith River (usable capacity, 6,325,000,000 cu ft); since September 1950 by John H. Kerr Reservoir (usable capacity, 101,247,000,000 cu ft); since June 1955 by Roanoke Rapids Lake (see p. 143); since September 1962 by Leesville Lake, since October 1962 by Lake Gaston (see p. 143); and since September 1963 by Smith Mountain Lake.

REVISIONS (WATER YEARS).--WSP 712: 1930. WSP 822: 1936. WSP 1032: 1912, 1928(M), 1930(M), 1932-33(M). WSP 1433: 1912-23, 1925-28, 1930, 1932-33, 1935, 1937-39. WSP 1904: 1958, 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,600	19,800	5,270	1,120	9,640	13,500	1,550	11,300	17,900	23,500	17,400	1,780
2	2,530	19,800	11,300	2,980	9,790	13,900	1,810	10,300	14,400	23,300	18,000	1,790
3	1,930	19,800	11,000	10,200	9,670	14,200	1,810	11,600	18,300	23,300	17,700	1,780
4	9,000	19,800	6,440	10,900	11,600	8,200	1,810	13,400	6,180	23,400	17,100	3,740
5	10,800	19,800	990	9,860	19,400	4,470	5,130	18,300	11,100	23,500	16,900	1,900
6	11,100	19,800	990	10,400	7,310	10,100	2,230	15,700	6,470	23,400	7,780	1,820
7	5,420	19,800	7,970	10,300	11,800	9,710	10,900	15,300	6,100	23,500	17,100	3,650
8	11,400	19,800	7,240	6,600	15,200	7,680	12,300	16,300	6,130	23,300	17,200	1,940
9	5,710	19,800	11,300	2,850	12,500	10,200	6,850	19,400	6,120	23,400	17,300	1,910
10	8,450	19,900	7,690	6,220	10,200	10,900	17,600	19,400	6,050	23,400	14,700	1,980
11	14,400	20,000	1,140	7,120	6,570	6,950	12,500	19,400	6,030	23,300	2,050	2,230
12	14,300	19,900	1,410	8,390	5,330	2,660	13,900	15,300	3,430	19,800	2,060	2,370
13	13,800	19,900	2,170	8,770	4,020	5,990	13,300	7,030	1,840	20,300	3,330	11,300
14	13,200	19,900	8,960	9,340	11,700	7,080	8,250	6,610	1,890	23,400	10,300	13,000
15	11,300	20,000	13,700	10,700	14,000	3,490	12,600	14,100	9,080	20,100	9,630	2,780
16	2,180	19,200	14,000	12,800	14,900	4,010	3,970	19,500	10,700	19,700	1,870	4,860
17	2,320	19,900	12,100	14,200	14,200	10,100	13,500	19,600	2,240	19,700	1,960	4,200
18	2,110	19,900	4,520	10,600	15,400	1,320	13,300	19,400	2,050	19,700	8,630	10,200
19	5,230	13,400	1,070	9,980	19,400	2,800	14,200	19,400	9,020	19,700	5,840	2,050
20	7,450	10,200	11,500	9,650	19,300	11,100	14,300	19,500	4,060	19,400	1,650	1,910
21	8,290	10,400	12,000	7,590	15,900	6,500	11,600	19,500	4,900	18,700	5,180	3,460
22	9,930	12,700	11,800	10,100	13,800	6,270	9,160	19,600	14,600	18,700	7,200	2,090
23	8,860	12,700	12,300	976	13,600	12,000	2,070	19,500	19,700	18,700	8,510	2,110
24	19,900	12,900	11,900	6,770	12,900	8,560	7,880	19,400	19,800	18,100	9,210	2,090
25	19,700	1,160	990	6,320	12,900	6,070	6,880	19,500	19,800	17,700	11,000	7,620
26	19,600	3,280	990	9,470	11,700	994	11,100	19,500	21,700	17,800	8,110	8,090
27	19,700	2,770	11,000	8,740	12,900	7,870	8,510	19,400	23,300	17,900	10,300	8,240
28	19,700	1,090	12,500	8,570	14,100	10,300	8,300	19,300	23,100	17,300	5,730	2,200
29	19,700	9,960	12,100	6,260	14,200	12,700	6,970	6,570	21,900	17,400	8,640	2,260
30	19,800	4,720	12,700	3,950	------	12,100	6,770	14,700	23,700	18,100	12,200	2,720
31	19,800	------	10,300	8,780	------	11,000	------	19,500	------	18,000	7,720	------
TOTAL	348,210	452,080	249,340	250,506	363,930	252,724	261,050	507,310	341,590	637,500	302,300	118,070
MEAN	11,230	15,070	8,043	8,081	12,550	8,152	8,702	16,360	11,390	20,560	9,752	3,936
MAX	19,900	20,000	14,000	14,200	19,400	14,200	17,600	19,600	23,700	23,500	18,000	13,000
MIN	1,930	1,090	990	976	4,020	994	1,550	6,570	1,840	17,300	1,650	1,780
(†)	+7,840	+6,717	-1,279	-977	-3,917	-10	+1,945	-247	+11,337	-10,786	-5,713	+33

CAL YR 1971 TOTAL 3,362,938 MEAN 9,214 MAX 20,000 MIN 908 MEAN ‡ 9,473 CFSM ‡ 1.13 IN ‡ 15.34
WTR YR 1972 TOTAL 4,084,610 MEAN 11,160 MAX 23,700 MIN 976 MEAN ‡ 11,064 CFSM ‡ 1.32 IN ‡ 17.97

† Change in content, equivalent in cubic feet per second, in Leesville and Smith Mountain Lakes, furnished by Appalachian Power Co.; in Philpott and Kerr Reservoirs, furnished by Corps of Engineers; and Lake Gaston and Roanoke Rapids Lake, furnished by Virginia Electric and Power Co.
‡ Adjusted for change in contents.

02081500 Tar River near Tar River, N. C.

LOCATION.--Lat 36°11'41", long 78°35'00", Granville County, on right bank 90 ft upstream from bridge on State Highway 96, 1.2 miles upstream from Fishing Creek, 2.5 miles east of town of Tar River, and 8 miles south of Oxford.

DRAINAGE AREA.--167 sq mi.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder and concrete control with a sharp-crested weir notch. Datum of gage is 287.25 ft above mean sea level.

AVERAGE DISCHARGE.--33 years, 147 cfs (11.93 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,420 cfs June 22 (gage height, 12.82 ft); minimum, 3.3 cfs Sept. 4, 5 (gage height, 1.32 ft).
Period of record: Maximum discharge, 13,100 cfs Aug. 18, 1955 (gage height, 18.07 ft); minimum, 0.02 cfs July 29, 30, 1966 (gage height, 1.09 ft).

REMARKS.--Records good. Town of Oxford diverts about 2.5 cfs for municipal water supply. Occasional intermittent diversion for irrigation.

REVISIONS (WATER YEARS).--WSP 972: 1940-41. WSP 1112: 1941 (calendar year figures). WSP 1273: 1941(M). WSP 1723: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	491	101	91	68	64	120	214	60	65	79	65	4.9
2	1,860	125	85	62	1,440	111	168	57	55	57	73	4.6
3	536	596	129	61	1,360	109	118	544	44	44	37	4.1
4	191	193	112	60	2,010	147	97	1,920	40	36	23	3.7
5	125	122	117	72	453	114	98	354	36	151	32	9.1
6	133	101	125	78	250	97	89	170	34	151	64	251
7	251	91	117	68	222	88	79	118	32	63	32	54
8	113	81	249	59	183	83	305	99	30	45	22	27
9	77	76	200	55	142	84	235	373	29	36	17	17
10	1,590	75	145	79	121	77	139	379	27	32	15	12
11	2,510	71	125	212	111	72	111	164	26	29	13	9.5
12	341	65	114	242	107	69	143	105	25	30	11	8.5
13	176	61	158	315	1,390	70	281	84	23	96	9.9	7.8
14	119	58	132	377	1,120	71	1,110	292	22	76	34	7.0
15	93	56	104	195	294	72	777	921	21	42	25	6.6
16	77	54	100	128	211	70	269	1,230	20	31	14	6.0
17	70	52	117	91	171	290	181	311	21	25	11	5.4
18	64	49	138	85	171	230	130	178	268	27	12	5.1
19	59	46	104	88	407	96	106	599	64	332	10	4.8
20	61	45	110	88	378	81	94	245	98	79	197	4.5
21	69	44	235	91	229	74	87	179	2,360	42	58	25
22	72	41	182	103	246	160	127	152	4,380	29	26	15
23	1,150	37	120	113	201	242	375	217	431	24	17	10
24	2,850	71	104	120	265	133	188	197	185	21	13	8.5
25	2,540	1,690	97	97	235	100	160	186	132	18	10	7.5
26	1,080	482	91	83	202	92	120	127	80	16	8.3	6.8
27	244	377	86	72	205	86	92	93	64	15	7.2	6.2
28	180	538	82	70	162	82	78	78	57	14	6.5	6.0
29	147	228	77	69	137	77	71	69	395	15	6.4	23
30	128	117	70	68	------	75	65	72	173	17	5.9	70
31	114	------	73	70	------	90	------	75	------	24	5.6	------
TOTAL	17,511	5,743	3,789	3,439	12,487	3,362	6,107	9,648	9,237	1,696	880.8	630.6
MEAN	565	191	122	111	431	108	204	311	308	54.7	28.4	21.0
MAX	2,850	1,690	249	377	2,010	290	1,110	1,920	4,380	332	197	251
MIN	59	37	70	55	64	69	65	57	20	14	5.6	3.7
CFSM	3.38	1.14	.73	.66	2.58	.65	1.22	1.86	1.84	.33	.17	.13
IN.	3.90	1.28	.84	.77	2.78	.75	1.36	2.15	2.06	.38	.20	.14

CAL YR 1971 TOTAL 72,657.6 MEAN 199 MAX 2,850 MIN 1.3 CFSM 1.19 IN 16.18
WTR YR 1972 TOTAL 74,530.4 MEAN 204 MAX 4,380 MIN 3.7 CFSM 1.22 IN 16.60

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 2	0900	7.87	2,280	2- 4	0900	8.31	2,560
10-11	0300	10.27	4,010	2-13	2230	8.01	2,370
10-24	0700	9.75	3,590	5- 4	0730	8.37	2,600
11-25	1330	7.59	2,110	6-22	0300	12.82	6,420

02081740 Tar River at Louisburg, N. C.

LOCATION.--Lat 36°05'26", long 78°17'48", Franklin County, near center of span on downstream side of bridge on South Main Street (Secondary Road 1229), at Louisburg, and 0.5 mile upstream from Fox Creek.

DRAINAGE AREA.--430 sq mi, approximately.

PERIOD OF RECORD.--October 1963 to current year (medium and high water discharges only). Gage height records collected at this site since June 1, 1956 are contained in reports of the National Weather Service, NOAA, U. S. Department of Commerce.

GAGE.--Nonrecording gage. Datum of gage is 178.76 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 6,970 cfs June 23 (gage height, 20.80 ft from graph based on gage readings); minimum gage height observed, 2.25 ft Aug. 31, Sept. 1-5, 12-21, 24-28.
Period of record: Maximum discharge, 6,970 cfs June 23, 1972 (gage height, 20.80 ft from graph based on gage readings); minimum gage height observed, 1.30 ft several days in September 1967, August, September and October 1968.
Floods of December 1934, September 1945, and August 1955 reached stages of 26, 24, and 24 ft, respectively, from information by Corps of Engineers.

REMARKS.--Records fair.

COOPERATION.--Gage readings furnished by the National Weather Service, NOAA, U. S. Department of Commerce.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-	311	422	-	206	390	325	-	276	325	-	-
2	1,340	311	382	-	422	346	467	-	-	-	-	-
3	2,830	276	304	-	2,460	332	346	-	-	-	-	-
4	1,640	680	360	-	3,640	332	311	1,570	-	-	-	-
5	368	422	276	-	3,890	332	262	2,500	-	-	-	-
6	422	318	276	-	2,000	332	-	1,570	-	346	-	-
7	1,640	276		-	680	276	-	318	-	255	-	311
8	449	262	304	-	422	276	-		-	-	-	-
9	-	-	467	-	422	255	-	318	-	-	-	-
10	-	-	339	-	382	255	414	845	-	-	-	-
11	1,960	-	311	297	346	-	325	845	-	-	-	-
12	3,760	-	276	531	346	-	353	318	-	-	-	-
13	1,610	-	276	610	610	-	353	318	-	-	-	-
14	346	-	276	982	2,700	-	1,420	279	-	269	-	-
15	262	-	297	650	3,640	-	2,400	279	-	-	-	-
16	-	-	276	422	820	-	1,170	2,570	-	-	-	-
17	-	-	276	276	560	382	485	1,560	-	-	-	-
18	-	-	297	276	485	630	390	1,560	-	-	346	-
19	-	-	276	262	610	405	270	560	1,220	-	375	-
20	-	-	276	-	1,280	346	-	350	-	346	375	-
21	-	-	346	262	795	276	-	300	1,130	-	368	-
22	-	-	485	311	610	262	320	250	4,020	-	346	-
23	1,070	-	346	290	512	512	523	716	6,650	-	-	-
24	3,790	-	360	290	540	422	400	710	4,880	-	-	-
25	5,300	494	276	276	680	382	400	610	882	-	-	-
26	4,940	2,270	276	276	540	276	250	390	360	-	-	-
27	4,260	970	-	276	531	255	-	346	276	-	-	-
28	1,140	1,110	-	-	467	255	-	276	-	-	-	-
29	512	908	-	-	422	-	-	262	440	-	-	-
30	422	512	-	-	------	-	-	-	710	-	-	512
31	375	------	-	-	------	-	------	-	------	-	-	------
TOTAL	-	-	-	-	31,018	-	-	-	-	-	-	-
MEAN	-	-	-	-	1,070	-	-	-	-	-	-	-
MAX	-	-	-	-	3,890	-	-	-	-	-	-	-
MIN	-	-	-	-	206	-	-	-	-	-	-	-
CFSM	-	-	-	-	2.49	-	-	-	-	-	-	-
IN.	-	-	-	-	2.68	-	-	-	-	-	-	-

02081800 Cedar Creek near Louisburg, N. C.

LOCATION.--Lat 36°03'14", long 78°20'24", Franklin County, near center of span on downstream side of bridge on U. S. Highway 401, 0.8 mile downstream from Camping Creek, 3.7 miles southwest of Louisburg, and 5.5 miles upstream from mouth.

DRAINAGE AREA.--47.8 sq mi.

PERIOD OF RECORD.--Annual maximum, water years 1954-56 and occasional low-flow measurements, water years 1954-56. September 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 214.93 ft above mean sea level. May 28, 1953, to Aug. 31, 1956, crest-stage gage at upstream side of bridge at datum 6.39 ft higher.

AVERAGE DISCHARGE.--16 years, 48.2 cfs (13.69 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,160 cfs Oct. 23 (gage height, 5.06 ft); minimum, 9.4 cfs Sept. 13, 14, 15 (gage height, 1.63 ft).
Period of record: Maximum discharge, 2,240 cfs May 6, 1958 (gage height, 6.96 ft); minimum, 0.77 cfs Sept. 26, 1968 (gage height, 1.25 ft).
Flood in 1935 reached a stage of about 14 ft, from information by the North Carolina State Highway Commission.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	42	35	32	35	49	60	30	54	28	25	16
2	100	39	32	33	197	48	47	30	38	24	21	13
3	80	50	32	32	270	53	40	46	34	21	18	11
4	35	60	37	33	290	50	40	91	32	19	16	25
5	19	46	34	39	162	45	42	43	31	25	26	54
6	75	35	36	34	92	42	38	35	30	24	20	22
7	82	34	37	31	74	41	37	32	31	22	18	16
8	28	31	37	30	59	41	53	33	27	19	16	14
9	19	29	34	30	51	38	43	52	26	18	15	13
10	61	31	33	47	47	37	37	36	25	17	15	12
11	193	30	33	70	44	36	37	31	25	18	14	11
12	42	29	32	53	46	37	51	29	24	30	13	11
13	25	29	70	64	202	37	54	28	24	44	14	10
14	21	29	68	76	248	37	88	54	23	26	15	10
15	18	28	62	53	102	36	66	74	21	26	14	10
16	16	29	52	42	68	42	51	233	21	34	12	10
17	16	28	45	42	62	123	44	234	18	22	14	12
18	15	27	47	42	59	102	38	70	80	28	25	16
19	16	27	40	44	169	63	37	51	153	48	19	12
20	37	28	34	42	151	52	37	48	66	24	42	11
21	32	27	58	48	86	48	43	45	363	20	25	27
22	26	25	56	47	71	65	52	74	454	18	18	21
23	461	24	50	46	62	57	64	152	162	17	16	15
24	846	37	43	42	71	47	46	109	50	20	15	14
25	322	110	38	39	61	45	50	84	36	17	14	13
26	148	65	36	36	65	48	40	62	30	15	15	12
27	88	52	35	35	70	44	35	50	25	15	13	12
28	65	58	34	36	57	43	34	44	39	33	12	15
29	54	45	33	35	53	41	33	39	108	50	12	22
30	49	42	33	37	------	40	32	45	40	70	11	65
31	45	------	36	36	------	54	------	52	------	28	11	------
TOTAL	2,989	1,160	1,292	1,306	3,024	1,541	1,369	2,036	2,090	820	534	525
MEAN	96.4	38.7	41.7	42.1	104	49.7	45.6	65.7	69.7	26.5	17.2	17.5
MAX	846	110	70	76	290	123	88	234	454	70	42	65
MIN	15	24	32	30	35	36	32	28	18	15	11	10
CFSM	2.02	.81	.87	.88	2.18	1.04	.95	1.37	1.46	.55	.36	.37
IN.	2.33	.90	1.01	1.02	2.35	1.20	1.07	1.58	1.63	.64	.42	.41

CAL YR 1971 TOTAL 16,621.2 MEAN 45.5 MAX 846 MIN 6.5 CFSM .95 IN 12.94
WTR YR 1972 TOTAL 18,686.0 MEAN 51.1 MAX 846 MIN 10 CFSM 1.07 IN 14.54

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	2330	5.06	1,160	6-22	0100	3.76	494

02082610 Tar River near Rocky Mount, N. C.

LOCATION.--Lat 35°58'38", long 77°45'35", Edgecombe County, near center of span on downstream side of bridge on Secondary Road 1250, 0.5 mile downstream from Compass Creek, and 3.2 miles northeast of Rocky Mount.

DRAINAGE AREA.--930 sq mi, approximately.

PERIOD OF RECORD.--November 1963 to current year. Prior to October, 1971 medium and high water discharges only.

GAGE.--Nonrecording gage. Datum of gage is 48.97 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 9,270 cfs Oct. 25 (gage height, 21.60 ft, from graph based on gage readings); minimum gage height observed, 1.74 ft Sept. 21.
Period of record: Maximum discharge, 12,800 cfs Oct. 6, 1964 (gage height, 24.0 ft, from graph based on gage readings); minimum gage height observed, 1.50 ft July 29, 1966.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,290	1,280	1,170	674	140	1,030	1,020	530	685	878	1,210	150
2	1,710	1,600	825	685	600	982	1,200	590	912	560	790	350
3	2,620	1,440	923	692	1,000	772	1,070	1,460	860	330	738	350
4	3,420	1,770	450	685	1,600	685	650	2,280	762	250	495	212
5	3,110	1,970	620	620	2,500	965	682	2,580	605	325	500	375
6	1,780	2,000	818	462	4,500	965	755	3,370	275	85	545	212
7	1,830	1,680	748	268	3,000	825	748	2,980	350	325	530	388
8	2,250	1,280	860	235	2,000	727	755	1,070	350	462	515	755
9	1,460	958	906	228	1,400	724	808	685	288	412	462	325
10	1,240	867	783	312	1,210	720	965	772	312	325	425	250
11	1,680	724	727	783	1,140	660	1,040	1,160	295	370	488	362
12	2,520	503	860	650	1,510	395	930	1,070	225	395	250	150
13	3,370	302	1,020	755	2,160	202	972	772	238	475	85	162
14	3,320	462	930	1,250	3,240	400	1,320	657	220	948	82	162
15	1,240	590	1,000	1,750	4,540	685	1,850	825	212	888	200	162
16	571	581	650	1,550	4,500	720	2,800	1,700	220	605	212	188
17	485	566	692	1,320	3,520	1,120	2,410	2,890	220	412	325	288
18	427	614	685	1,020	2,620	2,120	1,410	3,720	198	150	325	225
19	389	617	678	867	2,340	2,440	1,020	2,860	212	295	1,020	28
20	404	685	682	685	2,670	1,920	895	1,190	438	450	1,280	26
21	519	650	825	702	3,020	1,440	605	1,050	1,140	500	895	28
22	826	608	1,110	860	2,520	1,360	560	1,320	2,020	350	605	40
23	3,920	566	1,080	937	1,840	1,400	797	1,260	3,270	300	412	68
24	6,970	590	895	990	1,600	1,400	1,130	1,720	4,290	325	375	220
25	9,130	724	635	853	1,240	1,300	1,280	1,730	5,650	115	312	388
26	8,500	1,450	452	713	1,430	1,100	1,400	1,380	5,800	262	188	295
27	7,800	2,570	445	727	1,490	948	1,000	1,000	3,020	212	255	46
28	7,020	2,550	629	713	1,320	860	727	635	720	288	445	68
29	5,580	2,010	713	620	1,180	818	720	738	620	536	400	175
30	2,840	1,770	702	425	------	685	685	685	912	1,040	195	212
31	1,680	------	696	275	------	668	------	685	------	1,360	175	------
TOTAL	89,901	33,977	24,209	23,306	61,830	31,036	32,204	45,364	35,319	14,228	14,734	6,660
MEAN	2,900	1,133	781	752	2,132	1,001	1,073	1,463	1,177	459	475	222
MAX	9,130	2,570	1,170	1,750	4,540	2,440	2,800	3,720	5,800	1,360	1,280	755
MIN	389	302	445	228	140	202	560	530	198	85	82	26
CFSM	3.12	1.22	.84	.81	2.29	1.08	1.15	1.57	1.27	.49	.51	.24
IN.	3.60	1.36	.97	.93	2.47	1.24	1.29	1.81	1.41	.57	.59	.27

CAL YR 1971 TOTAL 148,087.00 MEAN 406 MAX 9,130 MIN 0 CFSM .44 IN 5.92
WTR YR 1972 TOTAL 412,768.00 MEAN 1,128 MAX 9,130 MIN 26 CFSM 1.21 IN 16.51

02082770 Swift Creek at Hilliardston, N. C.

LOCATION.--Lat 36°06'42", long 77°55'16", Nash County, near left bank at downstream side of bridge on Secondary Road 1310, 0.7 mile northeast of Hilliardson, and 2.8 miles downstream from Gideon Swamp.

DRAINAGE AREA.--163 sq mi.

PERIOD OF RECORD.--July 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 124 cfs (10.33 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,180 cfs Oct. 26 (gage height, 12.40 ft); minimum, 13 cfs Sept. 1, 2, 3, 17, 18, 19; minimum gage height, 2.15 ft Sept. 17, 18, 19.
Period of record: Maximum discharge, 2,180 cfs Oct. 26, 1971 (gage height, 12.40 ft); minimum, 0.60 cfs Sept. 25, 26, 1968.
Flood in 1924 reached a stage of 14.5 ft (discharge not determined), from information by North Carolina State Highway Commission.

REMARKS.--Records good above 100 cfs and fair below except those for period of no gage-height record, which are poor. An average of about 4.8 cfs was diverted above station for Henderson municipal water supply. About 0.5 cfs of sewage effluent was discharged into the Tar River and about 1.7 cfs was diverted into the Roanoke River basin. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	163	133	83	618	156	199	118	209	160	95	16
2	291	149	112	79	642	146	182	117	152	270	80	16
3	322	177	103	79	608	144	162	213	123	130	60	16
4	283	245	101	89	537	159	142	299	109	90	70	19
5	241	165	104	94	462	148	137	178	101	66	85	25
6	330	132	108	98	323	135	137	158	95	70	70	54
7	283	116	103	91	224	126	131	117	92	74	60	85
8	251	106	104	80	183	122	141	102	89	66	48	92
9	227	101	104	76	158	120	159	111	89	60	42	54
10	170	98	103	85	144	116	164	125	86	55	34	35
11	230	98	98	161	177	112	149	136	84	52	28	28
12	211	97	95	173	848	108	142	121	80	50	25	22
13	223	92	98	212	539	108	166	101	77	100	21	20
14	164	89	122	274	432	108	266	100	74	200	22	17
15	109	86	130	199	430	108	312	188	71	400	34	15
16	94	86	112	153	450	106	262	1,080	68	300	52	14
17	84	85	103	101	289	413	207	767	65	230	38	14
18	79	82	100	100	241	539	164	326	163	150	57	14
19	78	80	100	101	502	327	145	203	590	120	98	13
20	81	80	103	108	514	249	135	168	364	90	103	16
21	89	82	136	112	375	177	131	156	335	70	91	19
22	86	79	135	109	302	212	139	209	613	60	60	22
23	897	77	122	108	233	241	189	445	1,040	54	46	38
24	1,620	85	104	101	225	200	189	301	1,130	52	35	45
25	1,780	250	97	91	220	169	182	232	559	50	31	35
26	2,080	253	92	85	206	156	162	198	174	55	27	28
27	1,350	239	91	83	210	150	150	166	125	50	24	25
28	539	241	89	83	190	141	135	144	108	60	21	24
29	302	178	86	83	171	134	127	131	103	75	20	28
30	224	166	83	83	------	132	122	138	119	90	21	52
31	185	------	83	109	------	144	------	168	------	120	20	------
TOTAL	13,009	3,977	3,254	3,483	10,453	5,406	5,028	7,016	7,087	3,469	1,518	901
MEAN	420	133	105	112	360	174	168	226	236	112	49.0	30.0
MAX	2,080	253	136	274	848	539	312	1,080	1,130	400	103	92
MIN	78	77	83	76	144	106	122	100	65	50	20	13
CFSM	2.58	.82	.64	.69	2.21	1.07	1.03	1.39	1.45	.69	.30	.18
IN.	2.97	.91	.74	.79	2.39	1.23	1.15	1.60	1.62	.79	.35	.21

CAL YR 1971 TOTAL 54,101 MEAN 148 MAX 2,080 MIN 10 CFSM .91 IN 12.35
WTR YR 1972 TOTAL 64,601 MEAN 177 MAX 2,080 MIN 13 CFSM 1.09 IN 14.74

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-26	0830	12.40	2,180	6-24	0500	10.01	1,200
5-16	1300	10.04	1,210				

NOTE.--No gage-height record July 1 to Aug. 7.

02082950 Little Fishing Creek near White Oak, N. C.

LOCATION.--Lat 36°11'08", long 77°52'34", Halifax County, on right bank 8 ft downstream from bridge on Secondary Road 1338, 1.1 miles west of White Oak, 1.8 miles upstream from Powells Creek, 4.3 miles upstream from mouth, and 12 miles west of Enfield.

DRAINAGE AREA.--175 sq mi.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 116.44 ft above mean sea level. Since Feb. 14, 1962, auxiliary nonrecording gage 3.6 miles downstream.

AVERAGE DISCHARGE.--13 years, 152 cfs (11.80 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,440 cfs Oct. 25 (gage height, 16.55 ft); minimum discharge, 11 cfs Sept. 21 (gage height, 1.40 ft).
Period of record: Maximum discharge, 3,500 cfs Jan. 8, 1962 (gage height, 16.75 ft); minimum, 0.83 cfs Sept. 26, Oct. 2, 3, 1968.
Flood in July 1959 reached a stage of 19.3 ft, from floodmarks (discharge not determined).

REMARKS.--Records good except those for period of no gage-height record, which are fair. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1723: 1960(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	140	167	112	330	165	228	90	116	128	70	14
2	608	128	142	107	900	158	195	86	94	83	56	14
3	780	290	131	107	940	162	152	227	78	67	49	16
4	538	334	134	118	880	192	137	688	70	58	39	18
5	175	168	140	155	740	166	145	446	64	56	38	23
6	311	123	137	154	560	150	131	194	60	62	80	71
7	527	109	134	126	460	137	125	131	58	60	57	59
8	382	101	146	112	350	134	169	115	57	54	42	33
9	133	94	148	106	270	134	218	149	53	49	35	23
10	153	97	133	121	210	126	153	168	51	44	31	20
11	398	102	127	200	400	121	135	115	56	42	30	17
12	326	96	124	250	740	119	137	97	58	72	26	16
13	153	92	291	370	1,400	121	155	89	51	434	24	15
14	107	89	260	540	940	123	199	94	46	536	24	15
15	92	85	180	410	660	122	189	279	43	401	24	14
16	83	84	153	310	410	121	151	427	41	109	23	13
17	76	83	150	230	250	518	130	452	51	78	21	12
18	72	81	158	170	254	750	114	236	149	65	22	12
19	70	79	136	170	631	482	104	135	75	59	29	12
20	70	79	141	180	720	235	102	118	72	53	26	12
21	72	80	232	190	478	186	103	117	329	48	22	14
22	74	77	218	200	285	211	124	158	1,310	46	20	24
23	1,040	72	156	190	235	296	218	249	1,000	42	18	38
24	2,290	84	136	180	232	210	193	233	315	37	17	27
25	3,320	527	134	170	237	165	150	187	120	36	17	21
26	2,300	566	131	160	214	151	150	140	93	34	18	18
27	458	322	126	150	210	144	123	117	79	32	16	17
28	255	341	122	140	192	140	106	103	70	30	15	18
29	204	267	119	140	175	135	100	94	155	36	14	80
30	162	202	115	130	------	134	95	92	254	49	15	194
31	148	------	115	130	------	153	------	141	------	66	14	------
TOTAL	15,501	4,992	4,736	5,828	14,303	6,161	4,431	5,967	5,068	2,966	932	880
MEAN	500	166	153	188	493	199	148	192	169	95.7	30.1	29.3
MAX	3,320	566	291	540	1,400	750	228	688	1,310	536	80	194
MIN	70	72	115	106	175	119	95	86	41	30	14	12
CFSM	2.86	.95	.87	1.07	2.82	1.14	.85	1.10	.97	.55	.17	.17
IN.	3.30	1.06	1.01	1.24	3.04	1.31	.94	1.27	1.08	.63	.20	.19

CAL YR 1971 TOTAL 66,263 MEAN 182 MAX 3,320 MIN 15 CFSM 1.04 IN 14.09
WTR YR 1972 TOTAL 71,765 MEAN 196 MAX 3,320 MIN 12 CFSM 1.12 IN 15.26

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-25	1130	16.65	3,440	6-22	1100	11.02	1,410
2-13	Unknown	9.50	1,330				

NOTE.--No gage-height record Jan. 12 to Feb. 16.

02083000 Fishing Creek near Enfield, N. C.

LOCATION.--Lat 36°09'03", long 77°41'35", Edgecombe County, on right bank 15 ft downstream from bridge on U. S. HIighway 301, 2,000 ft downstream from Seaboard Coast Line Railroad bridge, 2 miles southwest of Enfield, 4.8 miles downstream from Rocky Creek, and 40 miles upstream from mouth.

DRAINAGE AREA.--521 sq mi.

PERIOD OF RECORD.--October 1923 to current year. Figures of daily discharge below 250 cfs Oct. 1, 1923, to July 3, 1924, below 350 cfs May 30, 1925, to May 31, 1926, below 150 cfs June 1 to Nov. 16, 1926, and below 100 cfs Nov. 17, 1926, to Sept. 30, 1928, published in WSP 622, 642, and 662 are unreliable and should not be used. Gage-height records collected at site 2,000 ft upstream at different datum July 1, 1910, to Apr. 30, 1914, and at present site and datum since May 1, 1914, are contained in reports of National Weather Service, NOAA, U. S. Department of Commerce.

GAGE.--Water-stage recorder. Datum of gage is 76.26 ft above mean sea level. Prior to Oct. 28, 1932, non-recording gage, at same site and datum.

AVERAGE DISCHARGE.--49 years, 483 cfs (12.59 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,890 cfs Oct. 27 (gage height, 15.43 ft); minimum, 46 cfs Sept. 20, 21 (gage height, 0.32 ft).
Period of record: Maximum discharge, 12,600 cfs Dec. 2, 1934, Aug. 18, 1940; maximum gage height, 17.72 ft Aug. 18, 1940; minimum daily discharge, 6.9 cfs Oct. 5, 1968.
The flood of Apr. 19, 1910 reached a stage of 20.1 ft, present datum (from floodmarks of Seaboard Coast Line Railroad Co.) at site 2,000 ft upstream. Flood of July 24, 1919, reached a stage of 19.6 ft (discharge, 20,300 cfs).

REMARKS.--Records good. Slight diurnal fluctuation and some regulation at low flow caused by mills above station.

REVISIONS (WATER YEARS).--WSP 872: 1935(M), WSP 1172: Drainage area. WSP 1333: 1928(M), 1932-33, 1935. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	476	500	307	312	474	538	287	1,190	457	180	55
2	1,040	443	431	296	846	455	593	273	675	3 7	189	54
3	1,660	518	384	289	1,910	448	500	412	406	23.	163	53
4	1,600	966	370	299	2,220	470	432	1,490	287	189	141	53
5	949	744	376	363	2,220	485	427	1,210	241	168	125	56
6	722	530	385	412	1,830	446	424	649	214	164	13.	71
7	1,150	421	379	386	1,180	409	393	424	200	183	167	186
8	1,210	374	381	327	772	386	463	338	188	177	144	180
9	679	344	399	309	595	379	520	340	180	158	119	122
10	484	329	389	308	509	367	514	425	171	143	104	89
11	836	334	364	463	467	347	432	389	171	132	93	71
12	1,050	334	353	611	446	336	409	311	172	142	87	63
13	716	321	433	629	1,190	336	442	269	168	465	81	59
14	480	311	643	818	2,190	340	545	257	154	1,000	78	58
15	349	303	556	816	2,160	341	716	448	144	1,120	79	57
16	296	297	445	610	1,560	334	625	1,860	136	478	83	55
17	268	292	405	463	908	648	498	1,760	129	289	81	54
18	249	287	403	356	707	1,780	416	975	181	227	78	52
19	237	282	392	381	1,230	1,750	366	542	390	187	81	48
20	241	279	368	399	1,720	1,120	336	422	278	169	117	47
21	249	277	458	402	1,650	682	322	384	429	154	100	48
22	252	274	558	406	996	568	333	446	2,000	145	83	47
23	1,310	264	481	403	716	698	454	900	2,360	133	76	53
24	3,020	259	399	396	643	706	566	880	1,700	121	74	105
25	4,110	656	371	385	652	542	509	662	865	114	71	93
26	5,740	1,120	360	353	616	471	471	523	444	117	66	75
27	6,480	1,060	347	324	598	444	429	429	305	111	63	65
28	3,330	790	337	308	565	424	363	367	253	103	62	63
29	1,230	725	327	307	510	410	323	325	262	100	59	66
30	653	592	317	310	------	398	302	308	462	117	57	232
31	520	------	311	310	------	414	------	463	------	150	55	------
TOTAL	41,460	14,202	12,624	12,761	31,968	17,411	13,601	18,768	14,755	7,750	3,086	2,330
MEAN	1,337	473	407	412	1,102	562	453	605	492	250	99.5	77.7
MAX	6,480	1,120	643	818	2,220	1,780	716	1,860	2,360	1,120	189	232
MIN	237	259	311	289	312	336	302	257	129	100	55	47
CFSM	2.57	.91	.78	.79	2.12	1.08	.87	1.16	.94	.48	.19	.15
IN.	2.96	1.01	.90	.91	2.28	1.24	.97	1.34	1.05	.55	.22	.17

CAL YR 1971 TOTAL 186,209 MEAN 510 MAX 6,480 MIN 54 CFSM .98 IN 13.30
WTR YR 1972 TOTAL 190,716 MEAN 521 MAX 6,480 MIN 47 CFSM 1.00 IN 13.62

02083500 Tar River at Tarboro, N. C.

LOCATION.--Lat 35°53'38", long 77°32'00", Edgecombe County, near right bank on downstream end of pier of bridge on U. S. Highway 64 in Tarboro, 6.5 miles downstream from Fishing Creek, and 49.2 miles upstream from Pamlico River at Washington.

DRAINAGE AREA.--2,140 sq mi, approximately.

PERIOD OF RECORD.--July 1896 to December 1900, October 1931 to current year. Gage-height records at various datums collected at same site since 1905 are contained in reports of National Weather Service, NOAA, U. S. Department of Commerce.

GAGE.--Water-stage recorder. Datum of gage is 10.37 ft above mean sea level. July 1896 to December 1900 nonrecording gage at Seaboard Coast Line Railroad bridge 600 ft downstream at different datum. Oct. 1, to Dec. 8, 1931, nonrecording gage at site 100 ft upstream at present datum.

AVERAGE DISCHARGE.--45 years, 2,215 cfs (14.06 inches per year).

EXTREMES.--Current year: Maximum discharge, 15,500 cfs Oct. 30 (gage height, 23.12 ft); minimum, 156 cfs Sept. 23, 25 (gage height, 1.50 ft).
Period of record: Maximum discharge, 37,200 cfs Aug. 20, 1940 (gage height, 31.77 ft); minimum, 36 cfs Oct. 17, 22, 1933, Oct. 6, 1968.
Flood of July 27, 1919, reached a stage of 34.0 ft, present datum, from floodmarks (discharge, 52,800 cfs).

REMARKS.--Records excellent. Some diurnal fluctuation at low flow caused by mills above station. Town of Tarboro diverted 2.3 cfs for municipal water supply. Water quality records for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1273: 1899-1900, 1933. WSP 1503: 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,620	9,460	3,260	1,510	1,430	2,790	2,010	1,480	1,800	1,640	1,660	295
2	5,860	6,920	2,640	1,470	2,000	2,580	2,200	1,330	3,050	1,680	1,460	392
3	6,960	4,700	2,260	1,450	3,700	2,470	2,400	1,370	3,770	1,370	1,110	386
4	7,740	3,960	2,070	1,390	5,040	2,380	2,460	3,700	3,760	1,010	908	293
5	8,070	3,770	1,850	1,450	6,240	2,190	2,080	4,540	2,780	816	776	365
6	8,080	4,130	1,800	1,140	7,250	2,240	1,950	5,100	1,920	796	864	530
7	7,450	4,000	1,780	1,240	8,050	2,150	1,920	5,580	1,260	588	764	416
8	6,750	3,490	1,720	1,160	8,420	2,000	1,860	4,460	1,040	658	724	524
9	6,240	3,020	1,700	1,180	7,100	1,850	1,870	2,850	904	732	724	760
10	5,520	2,440	1,720	1,360	5,160	1,770	1,990	2,320	780	690	637	560
11	5,280	2,180	1,790	1,740	3,570	1,710	2,240	2,100	662	548	567	464
12	5,350	1,950	1,650	2,050	3,310	1,580	2,050	2,190	599	620	557	437
13	5,660	1,800	1,620	2,440	4,000	1,600	1,950	1,940	578	662	443	321
14	6,000	1,650	1,660	3,730	5,910	1,530	2,090	1,580	588	792	345	277
15	5,460	1,620	1,900	4,110	6,110	1,460	2,580	1,470	551	1,570	377	280
16	3,450	1,540	2,110	4,480	7,000	1,490	3,230	1,980	500	1,960	464	272
17	2,480	1,480	1,920	4,360	7,700	1,890	3,930	3,750	479	1,690	410	224
18	1,990	1,410	1,820	3,540	7,860	3,100	3,560	4,780	458	1,090	446	241
19	1,710	1,340	1,740	2,780	7,310	4,000	2,530	5,670	443	848	644	249
20	1,530	1,310	1,800	2,450	7,070	4,500	2,100	5,750	1,240	776	988	200
21	1,480	1,250	1,950	2,220	6,940	4,480	1,860	4,030	1,790	716	1,060	244
22	1,520	1,210	2,040	2,200	6,950	4,290	1,660	3,220	1,930	740	912	203
23	3,080	1,210	2,150	2,140	6,760	3,950	1,750	2,970	3,650	630	752	176
24	6,410	1,180	2,190	2,100	6,090	3,560	2,040	3,320	4,710	482	599	217
25	8,670	1,310	1,970	2,100	4,390	3,410	2,510	3,850	5,510	500	506	203
26	9,710	1,550	1,800	1,920	3,520	3,010	2,820	3,740	6,130	488	443	319
27	11,400	2,580	1,780	1,780	3,030	2,630	2,450	3,210	6,720	470	345	350
28	13,600	3,900	1,620	1,700	3,010	2,340	2,180	2,710	5,060	458	319	251
29	15,100	3,160	1,630	1,620	3,000	2,150	1,910	2,200	2,510	560	347	288
30	15,400	3,500	1,590	1,440	------	2,000	1,650	1,850	1,780	1,260	362	374
31	13,000	------	1,540	1,550	------	1,930	------	1,670	------	1,640	288	------
TOTAL	203,570	83,020	59,070	65,800	157,920	79,030	67,830	96,710	66,952	28,480	20,801	10,111
MEAN	6,567	2,767	1,905	2,123	5,446	2,549	2,261	3,120	2,232	919	671	337
MAX	15,400	9,460	3,260	4,480	8,420	4,500	3,930	5,750	6,720	1,960	1,660	760
MIN	1,480	1,180	1,540	1,140	1,430	1,460	1,650	1,330	443	458	288	176
CFSM	3.07	1.29	.89	.99	2.54	1.19	1.06	1.46	1.04	.43	.31	.16
IN.	3.54	1.44	1.03	1.14	2.75	1.37	1.18	1.68	1.16	.50	.36	.18

CAL YR 1971 TOTAL 914,441 MEAN 2,505 MAX 15,400 MIN 185 CFSM 1.17 IN 15.90
WTR YR 1972 TOTAL 939,294 MEAN 2,566 MAX 15,400 MIN 176 CFSM 1.20 IN 16.33

02083800 Conetoe Creek near Bethel, N. C.

LOCATION.--Lat 35°46'33", long 77°27'45", Pitt County, on right bank 5 ft downstream from bridge on Secondary Road 1409, 5.5 miles downstream from Crisp Creek, and 5.5 miles west of Bethel.

DRAINAGE AREA.--78.1 sq mi.

PERIOD OF RECORD.--December 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (from topographic map).

AVERAGE DISCHARGE.--15 years, (1957-72) 88.5 cfs (15.39 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,160 cfs Oct. 4 (gage height, 14.21 ft); minimum, 4.7 cfs Sept. 27, 28, 29 (gage height, 0.15 ft).
Period of record: Maximum discharge, 2,580 cfs Aug. 23, 1967 (gage height, 15.74 ft); minimum daily, 1.3 cfs Nov. 6, 1968.
Flood of 1955 reached a stage of 16.7 ft, from information by local resident (discharge not determined).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	760	154	71	28	67	94	122	30	45	15	20	6.1
2	851	136	51	26	326	84	104	29	76	16	16	13
3	1,050	212	57	25	407	101	91	70	58	15	13	14
4	1,150	216	66	33	333	102	79	372	49	14	11	11
5	1,030	157	71	45	228	93	70	233	42	15	11	19
6	674	136	65	41	150	92	64	147	37	21	11	21
7	463	116	63	35	159	82	60	108	34	17	10	17
8	274	100	61	35	132	76	57	93	36	15	10	13
9	200	91	56	34	114	70	66	87	28	14	10	11
10	313	84	54	56	102	65	50	77	27	13	9.1	9.6
11	685	77	52	223	93	60	55	59	26	14	8.3	8.8
12	443	71	49	190	89	58	55	50	24	22	7.7	8.3
13	247	67	49	335	382	56	75	43	23	65	7.7	7.7
14	185	62	47	554	399	54	84	42	22	72	7.5	7.2
15	153	59	46	353	242	54	79	62	21	41	7.5	6.7
16	131	57	46	226	185	52	68	111	20	28	7.2	6.4
17	119	54	45	167	179	96	57	99	19	22	6.9	6.4
18	107	51	47	142	205	132	47	77	18	18	6.7	6.4
19	98	49	51	131	210	108	43	172	19	17	6.9	6.1
20	96	49	57	121	425	88	40	114	16	15	7.5	5.9
21	99	47	47	119	251	77	38	89	22	14	6.4	5.6
22	97	42	43	124	200	110	37	200	29	13	6.1	5.6
23	594	39	42	115	163	177	45	268	23	12	6.1	5.3
24	922	40	40	105	157	129	46	230	20	22	5.9	5.3
25	1,070	85	37	96	143	102	55	182	18	13	5.6	5.0
26	991	78	37	85	129	96	55	143	18	11	5.9	5.0
27	604	75	34	79	124	88	45	137	17	11	6.7	5.0
28	312	96	35	76	113	82	39	109	17	12	6.9	5.0
29	243	88	36	71	103	73	35	90	21	14	7.2	5.0
30	206	86	33	70	------	69	33	101	20	22	7.2	5.9
31	187	------	31	71	------	87	------	86	------	16	6.1	------
TOTAL	14,334	2,695	1,523	3,914	6,140	2,720	1,819	3,739	891	632	265.1	257.3
MEAN	462	89.9	49.1	126	212	87.7	60.6	121	29.7	20.4	8.55	8.58
MAX	1,150	216	71	654	510	177	122	372	95	72	20	21
MIN	96	39	31	25	67	52	33	29	17	11	5.6	5.0
CFSM	5.92	1.15	.63	1.61	2.71	1.12	.78	1.55	.38	.26	.11	.11
IN.	6.83	1.29	.73	1.86	2.92	1.30	.87	1.78	.42	.30	.13	.12

CAL YR 1971 TOTAL 46,525.2 MEAN 127 MAX 1,150 MIN 7.4 CFSM 1.63 IN 22.16
WTR YR 1972 TOTAL 38,932.4 MEAN 106 MAX 1,150 MIN 5.0 CFSM 1.36 IN 18.54

PEAK DISCHARGE (BASE, 470 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 4	1330	14.21	1,160	2- 2	2100	8.00	518
10-11	1100	11.11	711	2-13	1900	8.47	560
10-25	1830	13.92	1,090	2-19	1630	9.20	630
1-14	0500	10.19	729	5- 4	1030	7.67	488

02084500 Herring Run near Washington, N. C.

LOCATION.--Lat 35°34'03", long 77°01'09", Beaufort County, on left bank 10 ft downstream from bridge on Secondary Road 1506, 400 ft upstream from Pineywood Branch, 1.2 miles upstream from mouth, and 2.8 miles northeast of Washington.

DRAINAGE AREA.--About 15 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements in 1949. January 1950 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 2 ft (from topographic map). Prior to May 8, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years, 10.7 cfs (9.69 inches per year).

EXTREMES.--Current year: Maximum discharge, 586 cfs Oct. 1 (gage height, 14.80 ft from floodmark); minimum, 0.96 cfs part of each day Sept. 19-28, (gage height, 5.12 ft).
Period of record: Maximum discharge, 620 cfs Sept. 13, 1964 (gage height, 14.85 ft from floodmark); minimum, 0.60 cfs July 5-8, 1964.
Flood in 1946 reached a stage of 17 ft, from information by local resident (discharge not determined).

REMARKS.--Records good. Runoff affected by ditches and canals above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	356	22	5.8	8.7	8.2	8.0	15	4.5	24	1.1	5.9	1.5
2	132	25	5.1	8.8	54	7.8	13	3.2	14	1.0	4.7	3.6
3	43	29	5.2	4.9	56	6.8	9.5	5.5	8.1	.97	3.6	3.5
4	68	24	9.8	5.2	32	6.4	8.2	14	5.8	.96	6.6	2.6
5	55	14	8.5	5.0	32	6.4	7.3	11	4.8	1.0	29	2.4
6	34	14	7.1	4.8	25	6.2	6.8	7.0	3.9	1.1	15	2.5
7	40	11	6.4	4.3	21	5.8	6.2	5.5	3.3	1.0	17	2.1
8	28	9.2	6.0	4.8	17	5.4	7.4	4.6	2.7	.96	15	1.7
9	24	7.8	5.8	4.7	14	4.9	7.3	4.3	2.2	.96	8.1	1.5
10	62	7.9	5.2	11	11	4.8	6.6	4.7	1.9	.96	5.4	1.3
11	63	7.0	4.9	47	8.9	4.4	6.2	3.2	1.7	1.9	4.3	1.2
12	36	6.2	4.7	39	10	4.1	6.6	2.8	1.6	20	3.4	1.2
13	26	5.6	4.6	42	12	3.8	7.6	2.4	1.5	19	2.7	1.1
14	21	5.2	4.3	28	38	3.7	11	2.5	1.4	12	2.2	1.1
15	18	4.9	4.0	77	26	4.8	9.2	3.3	1.3	6.6	1.8	1.1
16	15	4.7	4.0	50	20	4.0	7.3	5.6	1.2	4.7	1.6	1.0
17	14	4.4	4.3	42	21	29	6.2	6.2	1.2	3.6	1.4	1.0
18	11	4.1	4.4	26	29	23	5.2	4.9	1.2	3.4	1.4	1.0
19	10	3.8	4.0	23	54	17	4.6	4.1	1.2	3.5	4.8	1.0
20	11	3.4	11	20	32	12	4.3	3.6	1.2	3.1	3.1	1.0
21	16	5.6	18	20	23	9.2	4.0	3.3	2.4	2.6	1.9	1.0
22	25	5.0	11	20	19	55	4.3	3.5	2.0	3.6	1.5	1.0
23	341	4.4	7.6	20	15	41	4.4	5.2	1.6	3.2	1.5	.96
24	214	4.6	7.0	17	13	27	4.3	6.2	1.4	3.2	1.4	.96
25	129	7.6	6.4	14	10	21	7.3	6.6	1.2	3.3	1.4	.96
26	72	7.3	5.8	10	11	18	7.3	7.3	1.1	2.4	1.2	.96
27	50	6.6	5.4	8.4	13	15	6.1	6.7	1.1	5.3	1.2	1.0
28	37	5.6	5.0	8.6	10	13	5.2	5.9	1.1	4.5	1.2	1.9
29	30	6.6	4.8	7.9	8.6	10	4.5	4.9	1.1	4.2	1.2	5.6
30	27	5.5	4.3	7.9	------	9.8	4.0	4.4	1.2	7.7	1.1	4.6
31	25	------	4.1	8.8	------	14	------	9.5	------	6.1	1.1	------
TOTAL	2,109	240.4	193.8	677.9	729.1	400.2	207.5	169.4	98.2	133.91	151.8	52.34
MEAN	68.0	8.46	6.25	21.9	25.2	12.9	6.92	5.46	3.27	4.32	4.90	1.74
MAX	356	29	18	92	72	55	15	18	24	20	29	5.6
MIN	10	3.8	4.0	3.7	8.2	3.7	4.0	2.4	1.1	.96	1.1	.96

CAL YR 1971 TOTAL 5,932.10 MEAN 16.0 MAX 356 MIN 1.1
WTR YR 1972 TOTAL 5,204.65 MEAN 14.2 MAX 356 MIN .96

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 1	About 0300	14.80	586	1-13	1600	10.48	191
10-23	2100	13.38	426				

NOTE.--No gage height record Oct. 1

02084540 Durham Creek at Edward, N. C.

LOCATION.--Lat 35°19'25", long 76°52'26", Beaufort County, on left bank 5 ft downstream from bridge on Secondary Road 1949, at Edward, and 6.8 miles upstream from mouth.

DRAINAGE AREA.--21 sq mi, approximately.

PERIOD OF RECORD.--Occasional low-flow measurements water years 1950-54, 1956-65. August 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.19 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 37.7 cfs (24.38 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,070 cfs Oct. 1 (gage height, 13.24 ft); minimum, 0.32 cfs (gage height, 3.52 ft from recorded range line) occurred during period of no gage-height record.
Period of record: Maximum discharge, 2,070 cfs Oct. 1, 1971 (gage height, 13.24 ft); no flow at times many years.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Water quality records for the current year are published in Part 2 of this report. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,880	102	44	16	63	48	62	5.8	19	.70	207	6.2
2	1,250	82	37	32	158	40	53	5.8	16	.90	189	29
3	745	112	35	55	308	41	44	10	13	.60	158	35
4	510	388	71	49	340	44	37	133	10	.50	110	32
5	378	136	98	45	276	41	35	137	8.5	.41	82	23
6	284	94	90	44	204	36	30	112	7.2	.65	59	20
7	224	63	82	39	155	32	25	73	6.0	1.5	44	25
8	166	44	70	35	122	30	24	44	5.0	1.6	35	26
9	122	34	58	33	98	27	22	31	4.1	1.2	29	26
10	150	29	48	30	80	24	20	22	3.5	.69	22	25
11	322	25	41	40	65	20	18	17	2.9	3.2	18	20
12	318	22	36	60	58	19	20	13	2.4	108	14	16
13	241	20	32	90	251	17	28	9.9	2.0	192	12	13
14	183	18	27	150	356	16	26	11	1.7	182	9.5	9.7
15	139	16	26	200	278	15	22	26	1.4	133	8.2	8.2
16	106	15	25	200	203	14	18	44	1.2	85	7.3	6.7
17	78	14	24	170	184	38	16	39	1.0	61	6.2	5.9
18	54	13	26	140	210	49	13	30	.60	56	5.6	5.4
19	56	12	24	120	230	43	11	31	.52	48	6.7	5.2
20	50	13	26	100	223	35	9.5	35	.33	35	25	4.7
21	44	14	35	100	176	30	9.0	35	.50	26	22	4.2
22	53	12	39	100	136	40	10	60	2.0	33	14	3.9
23	818	10	38	110	106	62	14	86	1.8	38	8.2	3.5
24	1,090	12	35	110	88	52	14	98	1.3	30	6.5	3.1
25	712	39	32	100	74	42	11	88	1.1	20	5.4	2.7
26	516	46	30	90	64	40	9.5	70	.95	15	4.6	2.4
27	406	40	27	80	73	37	8.4	53	.75	68	4.7	2.0
28	301	42	24	70	72	32	7.5	41	.66	220	4.5	2.0
29	222	42	22	64	60	28	6.7	32	.60	247	4.6	2.0
30	170	48	20	68	------	27	6.0	26	.56	252	5.0	2.1
31	131	------	18	65	------	46	------	21	------	250	4.7	------
TOTAL	11,729	1,557	1,240	2,605	4,711	1,065	629.6	1,439.5	116.57	2,110.95	1,131.7	369.9
MEAN	378	51.9	40.0	84.0	162	34.4	21.0	46.4	3.89	68.1	36.5	12.3
MAX	1,880	388	98	200	356	62	62	137	19	252	207	35
MIN	44	10	18	16	58	14	6.0	5.8	.33	.41	4.5	2.0
CFSM	18.0	2.47	1.90	4.00	7.71	1.64	1.00	2.21	.19	3.24	1.74	.59
IN.	20.78	2.76	2.20	4.61	8.35	1.89	1.12	2.55	.21	3.74	2.00	.66

CAL YR 1971 TOTAL 30,149.80 MEAN 82.6 MAX 1,880 MIN 1.6 CFSM 3.93 IN 53.41
WTR YR 1972 TOTAL 28,705.22 MEAN 78.4 MAX 1,880 MIN .33 CFSM 3.73 IN 50.85

NOTE.--No gage height record June 3 to July 5.

02085070 Eno River near Durham, N. C.

LOCATION.--Lat 36°04'18", long 78°54'33", Durham County, on right bank 275 ft downstream from bridge on U. S. Highway 501, 0.2 mile downstream from Crooked Creek, and 5 miles north of Durham.

DRAINAGE AREA.--141 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1955. August 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft (from topographic map). Prior to Nov. 19, 1966, at site 275 ft upstream at datum 2.35 ft higher. Nov. 20, 1966 to Sept. 30, 1967 water-stage recorder and crest-stage gage at present site at datum 0.94 ft higher.

AVERAGE DISCHARGE.--9 years, 109 cfs (10.50 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,760 cfs Oct. 25 (gage height, 18.79 ft); minimum, 6.3 cfs Sept. 4 (gage height, 1.31 ft).
Period of record: Maximum discharge, 9,080 cfs Feb. 7, 1965 (gage height, 15.18 ft, site and datum then in use); minimum, 0.53 cfs Oct. 1, 5, 1968.
REVISIONS.--The figures of maximum discharge for some water years have been revised as shown in the following table. They supercede figures published in WRD N. C. as indicated.

WRD	Water year	Date	Discharge (cfs)	Gage height (feet)
1968	1968	Mar. 12,13,1968	2,620	9.24
1969	1969	Mar. 2, 1969	1,910	7.48
1970	1970	Feb. 17, 1970	2,590	9.17
1971	1971	May 29, 1971	2,170	8.13

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.
Revised peak discharge.--1970-71: May 16 (1030) 2,390 cfs (8.02 ft); May 29, (0430) 2,170 cfs (8.13 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245	115	150	79	74	122	207	63	93	79	84	7.8
2	659	104	118	79	200	115	154	60	73	66	59	7.8
3	225	179	102	76	700	125	120	605	65	60	67	7.8
4	104	72	109	75	1,100	115	100	573	60	52	45	11
5	81	104	115	79	600	100	109	234	57	51	182	26
6	546	87	135	86	350	93	102	147	55	70	147	51
7	240	82	150	75	229	87	96	111	50	62	63	50
8	98	75	282	69	182	87	269	100	48	53	47	34
9	72	69	184	69	147	89	237	573	45	47	38	28
10	1,360	73	150	87	132	84	152	296	43	44	36	23
11	680	73	127	215	120	78	135	100	43	40	32	21
12	245	67	111	247	130	76	187	81	41	54	30	19
13	142	65	122	339	1,050	76	254	73	38	363	26	19
14	96	63	118	540	530	78	172	200	37	140	23	17
15	76	61	104	300	287	78	137	779	36	67	23	16
16	70	60	95	140	232	79	113	2,500	35	51	18	16
17	75	57	95	100	192	122	98	452	34	42	17	18
18	67	56	86	105	182	113	96	257	333	39	23	34
19	73	55	74	110	285	87	82	192	130	38	23	39
20	86	56	98	110	247	74	76	185	98	35	23	29
21	86	54	167	110	192	68	79	160	2,970	33	22	26
22	93	52	137	120	180	142	96	152	2,190	31	21	23
23	841	48	111	130	157	180	224	434	350	29	18	22
24	1,330	182	100	120	180	113	147	287	207	27	15	19
25	4,690	873	95	110	180	89	111	252	150	25	15	18
26	757	295	86	90	167	87	86	162	111	23	15	17
27	377	295	84	80	177	87	78	120	89	29	13	18
28	252	356	79	76	147	87	70	102	146	43	11	19
29	190	224	79	76	132	86	68	91	109	42	11	57
30	157	202	78	76	------	82	66	91	98	63	11	610
31	135	------	78	43	------	113	------	91	------	129	9.0	------
TOTAL	14,148	4,154	3,619	4,011	8,481	3,012	3,921	9,523	7,834	1,927	1,167.0	1,303.4
MEAN	456	138	117	129	292	97.2	131	307	261	62.2	37.6	43.4
MAX	4,690	873	282	540	1,100	180	269	2,500	2,970	363	182	610
MIN	67	48	74	43	74	68	66	60	34	23	9.0	7.8
CFSM	3.23	.98	.83	.91	2.07	.69	.93	2.18	1.85	.44	.27	.31
IN.	3.73	1.10	.95	1.06	2.24	.79	1.03	2.51	2.07	.51	.31	.34

CAL YR 1971 TOTAL 54,244.9 MEAN 149 MAX 4,690 MIN 7.5 CFSM 1.06 IN 14.31
WTR YR 1972 TOTAL 63,100.4 MEAN 172 MAX 4,690 MIN 7.8 CFSM 1.22 IN 16.65

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-25	0400	18.79	8,760	6-21	1900	13.38	4,510
5-16	0500	13.80	4,720				

02085220 Little River near Orange Factory, N. C.

LOCATION.--Lat 36°08'20", long 78°54'24", Durham County, on right bank 125 ft upstream from bridge on U. S. Highway 501, 1 mile upstream from Mountain Creek, and 1.2 miles northwest of Orange Factory.

DRAINAGE AREA.--81.6 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1930, 1954-59, 1961. September 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 333.98 ft above mean sea level (levels by North Carolina State Highway Commission).

AVERAGE DISCHARGE.--11 years, 66.7 cfs (11.10 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,070 cfs Oct. 25 (gage height, 12.56 ft from high-water mark in well); minimum, 4.0 cfs Sept. 17 (gage height, 0.75 ft).
Period of record: Maximum discharge, 9,070 cfs Oct. 25, 1971 (gage height, 12.56 from high-water mark in well); minimum daily, 0.05 cfs Oct. 5, 6, 1968.
A field estimate of 0.03 cfs was made on Sept. 18, 19, 1954.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237	70	76	45	600	67	115	36	36	40	37	7.3
2	550	62	64	44	500	65	74	34	32	40	38	7.3
3	119	90	60	43	700	75	57	384	30	39	28	6.9
4	87	100	51	43	632	66	49	282	28	35	21	6.9
5	100	70	68	51	174	58	47	108	26	38	313	11
6	701	50	73	50	121	54	44	74	24	40	69	35
7	135	51	102	44	106	51	43	62	23	37	38	15
8	72	46	166	41	85	51	340	63	21	34	28	9.5
9	55	43	90	40	77	51	144	123	20	35	22	8.0
10	1,000	45	75	54	71	45	92	72	20	35	19	6.9
11	500	43	68	110	67	43	80	55	70	33	17	6.6
12	200	42	62	106	68	43	160	50	20	38	16	5.8
13	120	41	72	163	818	43	176	47	19	118	17	5.5
14	70	40	63	182	261	43	157	162	18	48	15	5.1
15	45	38	59	96	139	40	106	364	17	37	16	4.8
16	40	38	57	69	106	41	82	340	15	30	15	4.4
17	42	37	57	50	93	75	70	121	19	25	14	4.2
18	38	36	54	45	93	56	60	82	199	23	20	7.6
19	40	35	49	43	164	43	55	91	31	20	16	11
20	48	35	60	40	133	39	54	77	48	18	14	6.9
21	50	35	91	50	101	38	52	67	2,200	17	14	6.6
22	52	35	70	50	97	78	79	63	707	17	13	6.6
23	600	34	57	65	85	81	145	89	113	16	12	6.2
24	1,200	232	54	60	107	53	74	75	75	16	11	6.6
25	6,000	665	53	55	97	45	60	72	58	15	11	6.6
26	900	145	51	50	97	45	49	55	48	13	9.5	6.2
27	350	197	49	45	94	44	43	46	41	13	8.5	5.5
28	200	198	48	43	80	44	40	43	49	41	9.0	5.8
29	150	112	46	41	72	42	38	39	46	26	9.0	13
30	100	105	45	40	------	41	36	39	41	62	8.5	276
31	80	------	49	100	------	64	------	40	------	43	7.6	------
TOTAL	13,861	2,780	2,051	1,956	5,841	1,624	2,621	3,255	4,094	1,042	886.1	514.8
MEAN	447	92.7	66.2	63.5	201	52.4	87.4	105	136	33.6	28.6	17.2
MAX	6,000	665	166	182	818	81	340	384	2,200	118	313	276
MIN	38	34	45	40	67	38	36	34	15	13	7.6	4.2
CFSM	5.48	1.14	.81	.78	2.46	.64	1.07	1.29	1.67	.41	.35	.21
IN.	6.32	1.27	.94	.90	2.66	.74	1.19	1.48	1.87	.48	.40	.23

CAL YR 1971 TOTAL 40,509.6 MEAN 111 MAX 6,000 MIN 5.8 CFSM 1.36 IN 18.47
WTR YR 1972 TOTAL 40,537.9 MEAN 111 MAX 6,000 MIN 4.2 CFSM 1.36 IN 18.48

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-10	Unknown	5.72	2,250	2- 3	1930	4.77	1,610
10-25	Unknown	12.56	9,070	6-21	1730	6.57	2,910

NOTE.--No gage-height record Oct. 9 to Nov. 4.

02085500 Flat River at Bahama, N. C.

LOCATION.--Lat 36°10'57", long 78°52'44", Durham County, on right bank 0.5 mile upstream from Lake Michie, 1.2 miles upstream from bridge on Secondary Road 1616, 1.2 miles north of Bahama, and 1.5 miles upstream from Dial Creek.

DRAINAGE AREA.--150 sq mi.

PERIOD OF RECORD.--July 1925 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 346.85 ft above mean sea level. Prior to Oct. 22, 1925, nonrecording gage at same site at datum 0.58 ft lower.

AVERAGE DISCHARGE.--47 years, 138 cfs (12.49 inches per year).

EXTREMES.--Current year: Maximum discharge, 10,500 cfs Oct. 25 (gage height, 9.82 ft); minimum, 7.1 cfs Aug. 31, Sept. 2, 3, 4, 5 (gage height, 1.06 ft).
Period of record: Maximum discharge, about 20,000 cfs July 26, 1938 (gage height, not determined), computed on basis of records for nearby stations; minimum, 0.23 cfs Sept. 26, 28, 29, Oct. 1, 1968.

REMARKS.--Records good. Prior to December 1962, some diurnal fluctuation and infrequent regulation at low flow caused by small mill 5 miles upstream. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1333: 1926, 1928(M), 1938, 1946.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	120	169	77	67	118	258	67	58	65	54	7.6
2	700	250	132	71	1,080	112	153	64	53	56	44	7.3
3	300	500	118	72	1,150	139	109	580	49	48	34	7.4
4	120	170	119	69	1,420	126	93	603	45	42	29	7.2
5	100	130	131	82	381	108	97	217	43	77	193	62
6	650	105	126	86	263	97	88	126	40	73	79	183
7	300	98	175	73	227	89	83	95	38	56	51	55
8	100	92	403	67	178	90	442	88	35	47	36	31
9	68	88	196	65	144	93	225	177	34	41	29	20
10	2,590	85	155	80	128	84	137	112	32	36	25	15
11	828	82	136	163	117	79	114	79	30	34	21	12
12	290	78	120	162	115	77	239	68	30	36	19	11
13	172	76	117	199	1,410	78	324	65	29	292	22	10
14	124	74	109	296	524	78	712	352	27	97	20	9.7
15	97	74	99	159	279	76	417	843	26	63	18	9.0
16	86	72	98	110	206	75	218	754	25	47	17	8.3
17	84	70	167	84	171	147	158	249	25	79	16	8.7
18	75	66	152	85	174	121	121	175	40	75	16	16
19	68	64	108	88	341	87	104	227	43	59	16	53
20	75	62	111	89	279	76	96	145	36	47	18	31
21	91	63	223	91	196	72	92	120	2,550	37	17	19
22	92	58	151	111	202	204	147	109	1,480	32	15	15
23	1,420	54	110	114	163	200	284	114	236	28	14	13
24	1,160	318	99	106	231	114	151	105	134	26	13	13
25	5,930	1,640	96	91	199	92	112	93	95	24	12	12
26	645	360	91	79	175	89	95	82	76	22	11	11
27	339	437	88	72	181	87	84	68	64	21	9.1	10
28	250	483	85	72	144	85	79	65	66	20	9.0	11
29	200	258	81	72	130	81	74	63	186	23	8.2	65
30	150	247	78	72	------	78	71	61	86	35	7.7	874
31	140	------	82	72	------	117	------	61	------	36	7.4	------
TOTAL	17,394	6,274	4,125	3,129	10,275	3,169	5,377	6,027	5,711	1,674	880.4	1,607.2
MEAN	561	209	133	101	354	102	179	194	190	54.0	28.4	53.6
MAX	5,930	1,640	403	296	1,420	204	712	843	2,550	292	193	874
MIN	68	54	78	65	67	72	71	61	25	20	7.4	7.2
CFSM	3.74	1.39	.89	.67	2.36	.68	1.19	1.29	1.27	.36	.19	.36
IN.	4.31	1.56	1.02	.78	2.55	.79	1.33	1.49	1.42	.42	.22	.40

CAL YR 1971 TOTAL 74,452.0 MEAN 204 MAX 5,930 MIN 12 CFSM 1.36 IN 18.46
WTR YR 1972 TOTAL 65,642.6 MEAN 179 MAX 5,930 MIN 7.2 CFSM 1.19 IN 16.28

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-10	1400	6.85	4,520	6-21	1800	8.00	6,500
10-25	0800	9.82	10,500				

02087000 Neuse River near Northside, N. C.

LOCATION.--Lat 36°02'54", long 78°44'59", Durham County, on right bank 25 ft upstream from Fish Dam Bridge on Secondary Road 1801, 1.5 miles downstream from Rocky Creek, 2.5 miles downstream from Seaboard Coast Line Railroad bridge, 2.5 miles south of Northside, 8.5 miles downstream from confluence of Eno and Flat Rivers, and 9.5 miles northeast of Durham.

DRAINAGE AREA.--526 sq mi.

PERIOD OF RECORD.--July 1927 to current year.

GAGE.--Water-stage recorder. Datum of gage is 225.91 ft above mean sea level. Prior to June 2, 1928, non-recording gage at site 10 ft upstream at same datum. Mar. 25, 1949, to Sept. 28, 1950, auxiliary non-recording gage, and Sept. 29, 1950, to Jan. 14, 1968, auxiliary water-stage recorder at bridge on U. S. Highway 15, 4 miles upstream. Mar. 5, 1968 to Oct. 7, 1969, auxiliary water-stage recorder and since Oct. 7, 1969, nonrecording auxiliary gage on bridge on Secondary Road 1900, 3.7 miles downstream.

AVERAGE DISCHARGE.--45 years, 507 cfs (13.09 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,670 cfs Oct. 26 (gage height, 22.23 ft); minimum, 24 cfs Sept. 17 (gage height, 1.38 ft).
Period of record: Maximum discharge, 36,600 cfs Sept. 18, 1945; maximum gage height, 31.02 ft Sept. 18, 1945, from floodmark; minimum discharge, 3.1 cfs Sept. 30, 1932 (gage height, 0.87 ft).

REMARKS.--Records good. Slight diurnal fluctuation caused by water plants above station. Flow regulated by Lake Michie (see p. 143). An average of 24.4 cfs was diverted from Flat River, an upstream tributary, for Durham municipal water supply, and an average of 2.8 cfs from Knap of Reeds Creek, an upstream tributary for Butner municipal water supply. Sewage effluent from Durham (about 11.4 cfs) and Butner was returned to Neuse River 3 miles upstream from station, and the remainder, about 10.2 cfs was diverted into the Cape Fear River basin.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1032: 1933(M), 1935-36, 1937(M), 1938-39, 1944(M). WSP 1333: 1928-31, 1933, 1934(M). WSP 1703: 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	554	467	627	263	244	443	610	210	271	287	304	38
2	2,260	426	477	239	1,660	414	733	222	228	216	214	38
3	2,210	401	397	236	3,280	406	440	530	219	180	205	34
4	888	896	389	230	4,230	443	357	2,500	181	154	187	33
5	421	601	426	271	4,240	383	371	1,900	168	149	281	76
6	1,970	398	438	296	2,300	354	336	708	166	192	528	110
7	2,280	346	476	249	1,050	317	285	416	190	190	250	110
8	852	317	790	239	732	309	714	336	181	150	171	74
9	590	308	763	194	571	315	1,120	734	150	133	144	50
10	1,820	275	532	251	491	296	600	674	134	121	149	38
11	4,270	295	451	620	478	275	443	408	137	120	145	31
12	4,100	257	404	823	438	266	470	287	123	117	141	31
13	1,780	259	448	814	1,720	266	927	249	123	538	106	31
14	683	229	433	1,340	3,100	267	913	386	91	650	106	29
15	378	226	377	899	2,080	258	1,100	1,390	78	264	124	29
16	312	244	358	550	943	270	686	3,320	72	171	127	27
17	303	211	326	389	684	384	473	4,310	71	148	121	27
18	274	220	395	334	608	464	390	2,290	332	144	171	97
19	282	198	341	341	939	360	312	942	348	137	100	44
20	404	213	365	329	1,170	291	287	812	186	114	80	56
21	390	188	579	374	781	260	278	526	1,350	95	57	56
22	343	176	584	416	663	398	315	592	4,100	78	52	64
23	1,640	176	423	431	605	620	732	1,070	5,110	64	49	40
24	3,590	223	337	430	613	464	660	891	2,550	56	47	32
25	4,830	1,960	315	377	697	348	541	1,320	1,000	56	45	27
26	8,720	2,560	302	320	625	305	390	655	530	51	43	29
27	4,620	1,290	292	271	648	310	288	389	289	46	39	29
28	2,280	1,560	285	272	567	303	265	312	287	159	40	33
29	1,140	1,020	272	246	485	284	235	280	718	189	46	170
30	718	771	249	246	------	274	219	288	450	282	40	880
31	513	------	258	252	------	327	------	305	------	367	38	------
TOTAL	55,415	16,711	13,109	12,542	36,642	10,674	15,490	29,252	19,833	5,618	4,150	2,363
MEAN	1,788	557	423	405	1,264	344	516	944	661	181	134	78.8
MAX	8,720	2,560	790	1,340	4,240	620	1,120	4,310	5,110	650	528	880
MIN	274	176	249	194	244	258	219	210	71	46	38	27
CFSM	3.40	1.06	.80	.77	2.40	.65	.98	1.79	1.26	.34	.25	.15
IN.	3.92	1.18	.93	.89	2.59	.75	1.10	2.07	1.40	.40	.29	.17

CAL YR 1971 TOTAL 225,101 MEAN 617 MAX 8,720 MIN 37 CFSM 1.17 IN 15.92
WTR YR 1972 TOTAL 221,799 MEAN 606 MAX 8,720 MIN 27 CFSM 1.15 IN 15.69

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-11	2400	18.27	5,120	5-17	0900	17.43	4,500
10-26	1200	22.23	9,670	6-23	0700	19.62	6,380
2- 5	0400	17.94	4,860				

02087183 Neuse River near Falls, N. C.

LOCATION.--Lat 35°56'24", long 78°34'32", Wake County, on left bank, 0.3 mile downstream from bridge on Secondary Road 2000, 0.4 mile northeast of Falls, and 0.5 mile downstream from Honeycutt Creek.

DRAINAGE AREA.--770 sq mi.

PERIOD OF RECORD.--July 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 182.62 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 8,110 cfs Oct. 28 (gage height, 19.56 ft); minimum, 22 cfs Sept. 13 (gage height, 1.83 ft).
Period of record: Maximum discharge, 8,110 cfs Oct. 28, 1971 (gage height, 19.56 ft); minimum, 7.2 cfs Oct. 12, 13, 1971 (gage height, 1.62 ft).

REMARKS.--Records good. Diversions for municipal water supply for cities of Durham and Butner (see sta 02087000). The city of Raleigh diverted an average of 20.3 cfs 1.2 miles upstream from station for municipal water supply, most of which was returned downstream as sewage effluent. Water quality records collected 0.3 mile upstream from station are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	731	1,040	311	298	677	639	280	464	509	738	54
2	2,210	653	774	304	1,800	612	980	259	367	327	371	60
3	3,240	621	602	276	3,710	573	763	604	284	249	264	54
4	2,610	975	540	271	4,850	578	550	2,670	261	209	244	50
5	891	1,120	571	291	5,120	540	521	3,510	223	180	226	90
6	1,370	689	620	343	5,260	471	478	2,650	210	240	593	150
7	3,260	512	625	327	4,420	424	409	910	212	221	443	160
8	2,840	440	761	279	1,870	381	506	519	221	197	244	150
9	990	395	1,220	264	1,000	361	1,580	620	189	172	182	110
10	1,150	386	885	266	760	347	1,230	1,250	165	155	142	80
11	3,450	370	662	724	674	329	727	856	156	145	158	60
12	4,410	340	572	1,270	629	306	598	486	154	168	154	27
13	4,880	307	617	1,280	2,290	312	1,090	331	147	309	150	29
14	3,460	292	680	1,900	3,620	306	1,410	304	142	800	122	36
15	818	261	574	1,880	4,040	303	1,640	818	108	600	120	36
16	471	264	505	1,110	3,160	303	1,380	2,960	92	370	134	31
17	385	267	464	651	1,400	426	837	4,520	90	250	126	28
18	344	236	467	490	1,030	671	603	5,060	101	240	178	43
19	300	244	505	455	1,340	587	471	4,540	574	220	214	101
20	482	223	452	454	2,020	421	377	2,160	385	162	216	54
21	575	239	803	476	1,610	339	367	1,240	1,000	134	154	72
22	530	230	957	620	1,150	371	392	839	4,100	111	90	71
23	1,930	200	755	642	1,020	762	749	1,700	5,200	94	68	84
24	4,150	219	533	616	957	804	1,200	2,230	5,440	78	60	56
25	5,070	1,170	433	540	1,060	522	954	1,920	5,200	68	62	45
26	5,760	3,010	401	441	1,050	413	786	2,310	2,230	66	60	38
27	7,330	3,170	384	360	1,070	383	532	1,360	504	60	57	33
28	7,970	2,370	353	331	972	383	409	762	378	67	47	26
29	6,880	2,130	339	320	798	363	364	515	882	382	46	45
30	4,470	1,340	317	298	------	334	308	446	889	887	48	228
31	1,370	------	300	298	------	350	------	496	------	509	52	------
TOTAL	83,909	23,404	18,711	18,088	58,978	13,952	22,850	49,125	30,368	8,179	5,763	2,101
MEAN	2,707	780	604	583	2,034	450	762	1,585	1,012	264	186	70.0
MAX	7,970	3,170	1,220	1,900	5,260	804	1,640	5,060	5,440	887	738	228
MIN	300	200	300	264	298	303	308	259	90	60	46	26
CFSM	3.52	1.01	.78	.76	2.64	.58	.99	2.06	1.31	.34	.24	.09
IN.	4.05	1.13	.90	.87	2.85	.67	1.10	2.37	1.47	.40	.28	.10

CAL YR 1971 TOTAL 324,992 MEAN 890 MAX 7,970 MIN 37 CFSM 1.16 IN 15.70
WTR YR 1972 TOTAL 335,428 MEAN 916 MAX 7,970 MIN 26 CFSM 1.19 IN 16.21

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-13	1000	15.30	4,960	2-15	1330	13.60	4,110
10-28	0330	19.56	8,110	5-18	1400	15.62	5,140
2- 6	0700	16.03	5,370	6-24	2130	16.55	5,680

02087500 Neuse River near Clayton, N. C.

LOCATION.--Lat 35°38'50", long 78°24'21", Johnston County, on left bank at downstream side of bridge on State Highway 42, 2.3 miles upstream from Mill Creek, and 3 miles east of Clayton.

DRAINAGE AREA.--1,140 sq mi, approximately.

PERIOD OF RECORD.--July 1927 to current year.

GAGE.--Water-stage recorder. Datum of gage is 128.41 ft above mean sea level. Prior to Mar. 18, 1942, at site 1,100 ft upstream at same datum.

AVERAGE DISCHARGE.--45 years, 1,171 cfs (13.95 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,160 cfs Oct. 30 (gage height, 11.06 ft); minimum, 150 cfs July 28; minimum gage height, 1.20 ft Sept. 17.
Period of record: Maximum discharge, 22,900 cfs Sept. 19, 1945 (gage height, 22.12 ft); minimum, 44 cfs Sept. 15, 1932 (gage height, 0.28 ft, site then in use).
Flood of July 23, 1919, reached a stage of 21.15 ft, from floodmark at former site (discharge, 21,200 cfs).

REMARKS.--Records good. Diversions for municipal water supply for cities of Durham and Butner (see sta 02087000). The city of Raleigh diverted from Swift Creek (see p. 145), a downstream tributary, an average of 10.1 cfs, and from the Neuse River upstream from station an average of 20.3 cfs, most of which was returned as sewage effluent upstream from station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1032: 1930, 1935(M). WSP 1333: 1935. WSP 1503: 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	654	1,520	1,370	566	584	1,080	962	530	818	938	1,140	178
2	3,030	968	1,120	566	2,000	992	1,200	503	698	614	1,030	213
3	3,700	1,130	914	548	4,020	956	1,210	554	578	455	656	197
4	3,380	1,430	836	519	5,230	926	986	2,500	486	380	475	175
5	2,160	1,400	818	525	5,490	908	866	3,100	445	608	1,080	362
6	2,180	1,160	848	554	5,200	842	842	3,180	405	596	1,390	884
7	3,580	841	878	584	5,260	770	764	1,830	385	410	1,100	530
8	3,460	698	884	542	4,630	728	938	902	375	390	700	348
9	2,400	637	1,110	497	1,920	692	1,270	824	375	330	500	301
10	1,480	612	1,250	560	1,270	662	1,750	1,170	339	293	520	251
11	3,200	580	986	1,260	1,080	638	1,260	1,190	318	285	400	210
12	3,670	573	842	1,530	1,010	620	1,030	818	301	390	322	190
13	4,040	557	854	1,770	2,440	602	1,140	602	301	1,230	289	170
14	4,370	534	974	2,120	4,100	608	1,540	584	293	998	281	161
15	3,040	503	914	2,280	3,940	608	1,590	932	281	1,050	262	170
16	911	482	800	1,830	4,080	596	1,760	2,410	251	596	250	164
17	697	482	752	1,200	2,970	1,070	1,330	3,900	234	475	259	164
18	616	469	728	914	1,630	1,240	980	4,340	230	362	662	445
19	561	440	728	806	2,280	1,110	812	4,630	281	366	626	310
20	548	456	788	776	2,600	896	692	3,630	734	322	782	274
21	719	430	1,010	812	2,360	746	632	1,590	1,110	270	632	227
22	734	424	1,220	968	1,810	926	686	1,310	2,600	237	366	318
23	2,040	388	1,120	1,010	1,490	1,260	884	2,250	3,280	210	281	270
24	4,740	385	926	968	1,420	1,240	1,270	2,630	3,870	190	244	251
25	4,940	830	758	878	1,390	1,010	1,380	2,200	4,490	178	223	213
26	5,020	1,970	680	800	1,460	902	1,170	2,330	4,610	167	216	197
27	5,130	2,900	662	698	1,420	800	938	1,720	1,810	161	251	190
28	5,820	2,970	632	638	1,370	776	752	1,110	650	237	214	244
29	6,830	2,360	602	638	1,230	740	644	812	800	318	194	244
30	7,040	1,920	584	614	------	704	578	740	1,290	2,150	175	1,480
31	5,570	------	596	602	------	734	------	758	------	1,500	172	------
TOTAL	96,260	30,049	27,184	28,573	75,684	26,382	31,856	55,579	32,638	16,706	15,692	9,331
MEAN	3,105	1,002	877	922	2,610	851	1,062	1,793	1,088	539	506	311
MAX	7,040	2,970	1,370	2,280	5,490	1,260	1,760	4,630	4,610	2,150	1,390	1,480
MIN	548	385	584	497	584	596	578	503	230	161	172	161
CFSM	2.72	.88	.77	.81	2.29	.75	.93	1.57	.95	.47	.44	.27
IN.	3.14	.98	.89	.93	2.47	.86	1.04	1.81	1.07	.55	.51	.30

CAL YR 1971 TOTAL 441,158 MEAN 1,209 MAX 7,040 MIN 134 CFSM 1.06 IN 14.40
WTR YR 1972 TOTAL 445,934 MEAN 1,218 MAX 7,040 MIN 161 CFSM 1.07 IN 14.55

PEAK DISCHARGE (BASE, 7,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	0300	11.06	7,160				

02087570 Neuse River at Smithfield, N. C.

LOCATION.--Lat 35°30'46", long 78°21'00", Johnston County, on left bank 10 ft downstream from bridge on U. S. Highway 70, at Smithfield, 2.1 miles upstream from Swift Creek and 177.6 miles upstream from mouth.

DRAINAGE AREA.--1,200 sq mi, approximately.

PERIOD OF RECORD.--October 1959 to current year. Prior to October 1970 medium and high water discharges only. Gage height records at different datum collected at this site since July 1911 are contained in reports of the National Weather Service, NOAA, U. S. Department of Commerce.

GAGE.--Water-stage recorder. Datum of gage is 99.26 ft above mean sea level. Prior to Dec. 21, 1971, nonrecording gage on upstream side of bridge near center of span at same datum.

EXTREMES.--Current year: Maximum discharge, 7,200 cfs Oct. 31 (gage height, 18.50 ft, from graph based on gage readings); minimum, 147 cfs Sept. 17 (gage height, 3.16 ft).
Period of record: Maximum discharge observed, 11,600 cfs Oct. 7, 1964 (gage height, 22.10 ft); minimum observed, 72 cfs Oct. 15, 1970; minimum gage height observed, 2.38 ft Sept. 26, 1968.
Flood in August 1908 reached a stage of 27.1 ft (discharge, 19,900 cfs); July 24, 1919, 26.8 ft (discharge, 19,400 cfs); Oct. 3, 1929, 26.4 ft (discharge, 18,700 cfs); Sept. 20, 1945, 25.9 ft (discharge, 17,900 cfs), from stage information furnished by National Weather Service and Corps of Engineers, and discharges determined from ratings developed since 1959.

REMARKS.--Records good except those prior to Dec. 21, which are fair. Diversions for municipal water supply for cities of Durham and Butner (see sta 02087000). The city of Raleigh diverted from Swift Creek (see p. 145), a downstream tributary, an average of 10.1 cfs, and from Neuse River upstream from station an average of 20.3 cfs, most of which was returned as sewage effluent upstream from station. The city of Smithfield diverted an average of 1.5 cfs 0.2 mile upstream from station for municipal water supply, most of which was returned downstream as sewage effluent. Water quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage readings prior to Dec. 21 furnished by the National Weather Service, NOAA, U. S. Department of Commerce.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	372	6,000	1,840	746	764	1,370	1,120	686	918	1,120	1,200	197
2	2,100	2,660	1,420	728	1,820	1,260	1,310	650	819	765	1,240	215
3	3,640	1,210	1,210	728	3,710	1,170	1,410	833	686	570	899	245
4	3,870	1,770	1,080	689	4,780	1,150	1,230	2,030	575	473	653	197
5	3,730	1,580	1,070	686	5,660	1,120	1,090	3,170	529	489	773	225
6	2,350	1,670	1,060	704	6,080	1,070	1,020	3,320	475	750	1,620	884
7	3,440	1,320	1,100	731	6,000	992	953	2,770	444	526	1,200	755
8	3,780	1,050	1,120	719	5,700	953	1,070	1,240	425	458	974	492
9	3,840	912	1,120	659	4,600	908	1,280	986	422	413	713	370
10	2,590	852	1,500	740	2,600	866	1,860	1,110	391	362	647	310
11	3,140	822	1,310	1,360	1,500	842	1,540	1,340	355	329	452	242
12	3,760	780	1,130	1,820	1,400	824	1,230	1,030	333	458	398	207
13	4,100	777	1,040	2,240	2,300	800	1,290	797	324	975	380	181
14	4,460	734	950	2,810	3,780	803	1,560	722	312	1,120	458	163
15	4,660	722	1,170	3,000	4,300	797	1,740	938	304	1,210	360	159
16	2,690	669	1,070	2,790	4,370	809	1,870	2,030	275	894	312	161
17	1,040	652	998	1,970	4,370	1,410	1,600	3,390	243	585	302	157
18	834	661	983	1,260	3,230	1,980	1,180	4,050	239	492	569	278
19	765	624	935	1,050	2,660	1,630	992	4,660	229	489	899	482
20	689	624	980	986	3,230	1,300	872	4,620	596	420	896	312
21	742	616	1,120	989	3,220	1,070	800	3,130	963	357	932	270
22	915	594	1,350	1,110	2,840	1,130	809	1,690	2,060	304	550	302
23	1,170	572	1,320	1,190	2,450	1,540	974	2,250	3,030	267	398	325
24	4,000	524	1,160	1,150	1,840	1,460	1,270	2,960	3,500	239	312	282
25	5,160	600	983	1,090	1,700	1,350	1,870	2,760	3,980	227	262	240
26	5,540	1,290	881	998	1,720	1,170	1,480	2,650	4,360	199	245	207
27	5,660	2,640	839	890	1,780	1,060	1,200	2,270	3,560	190	260	191
28	5,760	3,300	821	821	1,660	1,010	959	1,360	1,080	199	315	217
29	6,190	2,980	788	800	1,550	980	827	960	807	343	260	268
30	6,870	2,640	764	797	------	950	749	840	1,230	1,490	215	845
31	7,110	------	758	788	------	917	------	834	------	2,010	187	------
TOTAL	104,967	41,845	33,870	37,039	91,614	34,691	37,155	62,076	33,464	18,723	18,881	9,379
MEAN	3,386	1,395	1,093	1,195	3,159	1,119	1,239	2,002	1,115	604	609	313
MAX	7,110	6,000	1,840	3,000	6,080	1,980	1,870	4,660	4,360	2,010	1,620	884
MIN	372	524	758	659	764	797	749	650	229	190	187	157
CFSM	2.82	1.16	.91	1.00	2.63	.93	1.03	1.67	.93	.50	.51	.26
IN.	3.25	1.30	1.05	1.15	2.84	1.08	1.15	1.92	1.04	.58	.59	.29

CAL YR 1971 TOTAL 530,537 MEAN 1,454 MAX 7,150 MIN 186 CFSM 1.21 IN 16.45
WTR YR 1972 TOTAL 523,704 MEAN 1,431 MAX 7,110 MIN 157 CFSM 1.19 IN 16.23

02088000 Middle Creek near Clayton, N. C.

LOCATION.--Lat 35°34'12", long 78°35'30", Johnston County, on right bank 300 ft downstream from bridge on State Highway 50, 0.5 mile upstream from Buffalo Branch, 3.7 miles downstream from Wake-Johnston County line, and 9.5 miles southwest of Clayton.

DRAINAGE AREA.--80.7 sq mi.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October 1939, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 184.53 ft above mean sea level. Nov. 1-20, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 92.2 cfs (15.52 inches per year).

EXTREMES.--Current year: Maximum discharge, 821 cfs Oct. 7 (gage height, 7.97 ft); minimum, 6.6 cfs Sept. 15 (gage height, 1.12 ft).
Period of record: Maximum discharge, 5,400 cfs Sept. 4, 1955 (gage height, 13.14 ft); no flow Oct. 11-13, 1954.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 952: 1940(M), 1941. WSP 1233: 1943(M), 1945, 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	82	79	55	69	100	147	55	53	40	69	9.9
2	341	76	71	53	281	95	125	53	45	35	39	14
3	496	96	71	53	444	95	94	62	39	30	26	13
4	453	287	80	52	526	105	83	115	34	25	19	11
5	122	373	98	53	447	94	103	119	32	40	18	39
6	160	170	106	53	268	88	91	64	30	70	70	28
7	513	106	96	49	172	78	80	54	28	45	54	20
8	655	87	87	47	144	74	117	49	26	25	54	15
9	189	74	77	45	119	71	132	67	25	15	55	12
10	180	72	71	74	107	66	94	63	23	10	35	9.9
11	407	72	69	238	100	64	82	50	21	10	25	8.6
12	444	68	67	234	101	63	103	44	19	25	19	7.6
13	216	65	77	200	285	64	171	41	18	50	16	7.1
14	97	63	76	267	379	63	135	48	17	90	16	7.1
15	85	60	66	216	307	63	97	87	15	45	16	6.8
16	79	60	64	125	166	63	82	186	14	30	14	7.1
17	99	59	64	89	148	195	72	148	13	52	12	9.9
18	85	58	66	83	156	265	63	66	12	52	24	66
19	70	58	61	85	276	169	60	56	11	94	31	29
20	66	61	74	82	338	109	56	50	15	43	22	16
21	74	63	161	89	232	90	73	47	35	32	23	14
22	80	57	133	117	158	116	102	59	120	27	16	18
23	175	52	86	109	130	155	193	173	100	23	12	19
24	282	52	72	94	131	110	179	234	60	21	11	16
25	265	117	69	82	128	85	144	204	35	19	9.9	13
26	174	142	65	71	138	96	117	125	30	17	9.9	11
27	123	98	63	64	176	113	85	81	28	16	12	11
28	102	124	61	63	142	104	70	65	25	20	16	24
29	92	106	59	64	113	89	64	56	40	36	16	64
30	87	93	55	67	------	82	59	53	50	38	13	156
31	86	------	58	74	------	99	------	55	------	53	11	------
TOTAL	6,342	2,951	2,402	3,047	6,181	3,123	3,073	2,629	1,013	1,128	783.8	683.0
MEAN	205	98.4	77.5	98.3	213	101	102	84.8	33.8	36.4	25.3	22.8
MAX	655	373	161	267	526	265	193	234	120	94	70	156
MIN	45	52	55	45	69	63	56	41	11	10	9.9	6.8
CFSM	2.54	1.22	.96	1.22	2.64	1.25	1.26	1.05	.42	.45	.31	.28
IN.	2.92	1.36	1.11	1.40	2.85	1.44	1.42	1.21	.47	.52	.36	.31

CAL YR 1971 TOTAL 38,585.7 MEAN 106 MAX 1,470 MIN 6.2 CFSM 1.31 IN 17.79
WTR YR 1972 TOTAL 33,355.8 MEAN 91.1 MAX 655 MIN 6.8 CFSM 1.13 IN 15.38

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 7	2400	7.97	821				

NOTE.--No gage-height record June 8 to July 16.

02088470 Little River near Kenly, N. C.

LOCATION.--Lat 35°35'18", long 78°11'12", Johnston County, near left bank on downstream side of bridge on Secondary Road 1934, 0.7 mile downstream from Buffalo Creek, and 3.7 miles west of Kenly.

DRAINAGE AREA.--190 sq mi, approximately.

PERIOD OF RECORD.--July 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 140 ft (by barometer).

AVERAGE DISCHARGE.--8 years, 170 cfs (12.15 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,050 cfs Oct. 25 (gage height, 14.10 ft); minimum, 18 cfs Sept. 19, 20.
Period of record: Maximum discharge, 5,030 cfs Oct. 6, 1964 (gage height, 16.30 ft); minimum, 0.18 cfs Oct. 4, 5, 6, 1968.

REMARKS.--Records good. Some diurnal fluctuation and some regulation during periods of low flow caused by mill 10 miles upstream. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	241	187	11[illegible]	143	221	238	95	181	63	136	26
2	291	217	163	1[illegible]4	368	202	227	87	154	51	26[illegible]	27
3	452	205	147	1[illegible]1	617	193	203	152	121	43	198	26
4	352	277	152	99	722	197	186	455	1[illegible]1	36	110	24
5	300	367	173	104	673	188	177	352	8[illegible]	32	73	24
6	260	338	175	102	577	183	166	171	69	31	67	28
7	296	272	166	93	486	172	153	125	65	39	69	39
8	331	232	161	87	392	159	186	103	56	39	87	52
9	313	189	152	83	302	146	212	109	49	35	85	43
10	316	158	143	121	249	134	189	109	44	31	60	31
11	445	144	139	337	223	124	169	93	41	29	50	26
12	401	134	134	354	214	115	182	82	40	44	40	24
13	325	125	132	362	543	120	241	70	38	76	31	23
14	277	119	130	643	753	126	218	83	36	79	50	22
15	231	112	127	542	598	129	186	141	34	165	110	21
16	177	107	135	330	462	117	168	295	31	131	50	20
17	143	102	136	250	450	346	157	329	30	93	27	20
18	120	97	134	260	397	683	136	246	29	57	40	20
19	101	93	123	250	533	534	119	233	29	49	60	19
20	93	93	148	240	635	347	110	232	35	42	160	19
21	98	93	220	240	581	292	107	189	76	36	100	20
22	104	89	211	250	514	297	116	297	141	32	80	22
23	557	82	173	260	437	332	152	457	139	29	50	22
24	1,520	83	157	260	357	269	198	612	121	27	38	22
25	2,010	119	146	210	311	238	341	447	124	26	31	24
26	1,780	164	133	180	286	236	285	327	85	24	30	24
27	1,340	174	128	155	292	222	198	254	57	24	33	23
28	848	204	123	146	273	203	150	195	49	24	34	25
29	464	214	118	141	246	184	125	156	61	27	31	27
30	331	208	115	142	------	171	108	137	116	34	30	42
31	276	------	113	152	------	184	------	155	------	69	27	------
TOTAL	14,613	5,052	4,594	6,738	12,654	7,067	5,403	6,798	2,232	1,457	2,247	785
MEAN	471	168	148	217	436	228	180	219	74.4	47.0	72.5	26.2
MAX	2,010	367	220	643	753	683	341	612	181	131	260	52
MIN	57	82	113	83	143	117	107	70	29	24	27	19
CFSM	2.48	.88	.78	1.14	2.29	1.20	.95	1.15	.39	.25	.38	.14
IN.	2.86	.99	.90	1.32	2.48	1.38	1.06	1.33	.44	.29	.44	.15

CAL YR 1971 TOTAL 82,017 MEAN 225 MAX 2,010 MIN 12 CFSM 1.18 IN 16.06
WTR YR 1972 TOTAL 69,640 MEAN 190 MAX 2,010 MIN 19 CFSM 1.00 IN 13.63

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-25	1100	14.10	2,050				

02088500 Little River near Princeton, N. C.

LOCATION.--Lat 35°30'40", long 78°09'36", Johnston County, on left bank 600 ft downstream from bridge on Secondary Road 2320, 0.8 mile upstream from Little Creek, and 3 miles north of Princeton.

DRAINAGE AREA.--229 sq mi.

PERIOD OF RECORD.--February 1930 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 107.75 ft above mean sea level. Prior to Nov. 17, 1934, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--42 years, 251 cfs (14.88 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,390 cfs Oct. 26 (gage height, 11.32 ft); minimum, 17 cfs Sept. 21, 22-27 (gage height, 1.24 dt).
Period of record: Maximum discharge, 7,150 cfs Oct. 6, 1964 (gage height, 13.94 ft); minimum, 1.0 cfs several times in September and October 1932, Oct. 10, 11, 1968.
Flood of July 1919 reached a stage of 14.57 ft; September 1924, 14.90 ft; September 1928, 13.3 ft; October 1929, 13.47 ft; from information by local resident.

REMARKS.--Records good. Slight diurnal fluctuation and occasional regulation for short periods, caused by mills above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1233: 1935(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	340	241	124	201	308	325	129	224	198	123	30
2	405	299	207	119	486	278	326	114	213	81	270	37
3	736	274	182	113	857	262	289	159	159	55	296	34
4	649	320	185	109	1,000	263	263	557	127	40	172	28
5	469	438	218	113	961	253	250	613	99	33	105	26
6	395	462	235	116	793	243	234	295	79	33	72	27
7	361	377	221	105	668	232	213	186	79	33	79	31
8	419	305	207	95	570	215	252	145	64	37	76	55
9	423	252	194	88	447	199	302	145	54	35	114	58
10	435	207	180	129	358	180	272	148	48	30	75	41
11	629	182	171	487	305	165	241	124	42	28	50	29
12	648	166	164	588	291	155	247	106	39	45	39	23
13	517	155	157	594	766	154	333	90	38	108	36	21
14	387	145	154	848	1,190	158	321	89	37	97	75	20
15	326	136	147	907	1,010	171	272	203	34	111	129	20
16	272	129	152	623	710	157	238	349	30	145	49	21
17	221	122	158	406	633	424	214	491	29	135	30	21
18	184	115	159	320	596	846	188	349	27	73	54	20
19	156	109	148	291	791	873	162	279	26	63	162	18
20	135	109	168	269	939	584	144	306	30	54	186	18
21	139	108	297	270	837	431	139	235	66	38	189	18
22	154	103	304	304	702	429	151	326	172	31	124	18
23	672	94	241	306	620	542	178	499	179	27	76	17
24	1,510	91	201	284	534	433	244	817	141	24	55	17
25	2,040	126	185	259	460	327	483	703	139	23	42	17
26	2,350	185	168	234	409	319	545	515	115	23	35	17
27	2,080	214	154	208	415	321	325	355	67	22	32	18
28	1,470	252	148	194	397	289	235	280	49	23	43	19
29	778	272	140	187	353	264	182	220	60	23	60	19
30	500	270	133	189	------	244	151	184	292	30	44	32
31	398	------	131	207	------	256	------	184	------	50	34	------
TOTAL	19,948	6,357	5,750	9,086	18,299	9,975	7,719	9,195	2,758	1,748	2,926	770
MEAN	643	212	185	293	631	322	257	297	91.9	56.4	94.4	25.7
MAX	2,350	462	304	907	1,190	873	545	817	292	198	296	58
MIN	90	91	131	88	201	154	139	89	26	22	30	17
CFSM	2.81	.93	.81	1.28	2.76	1.41	1.12	1.30	.40	.25	.41	.11
IN.	3.24	1.03	.93	1.48	2.97	1.62	1.25	1.49	.45	.28	.48	.13

CAL YR 1971 TOTAL 109,186 MEAN 299 MAX 2,350 MIN 18 CFSM 1.31 IN 17.74
WTR YR 1972 TOTAL 94,531 MEAN 258 MAX 2,350 MIN 17 CFSM 1.13 IN 15.36

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-26	0900	11.32	2,390	2-14	1500	8.79	1,230

02089000 Neuse River near Goldsboro, N. C.

LOCATION.--Lat 35°20'14", long 77°59'51", Wayne County, on left bank at downstream side of bridge on Secondary Road 1915, 0.2 mile upstream from Stony Creek, 1.5 miles downstream from Seaboard Coast Line Railroad bridge, 3.2 miles south of Wayne County courthouse in Goldsboro, 4.3 miles downstream from Little River, and 135 miles upstream from mouth.

DRAINAGE AREA.--2,390 cfs, approximately.

PERIOD OF RECORD.--February 1930 to current year.

Gage.--Water-stage recorder. Datum of gage is 42.95 ft above mean sea level. Prior to July 24, 1931, nonrecording gage at railroad bridge, 1.5 miles upstream at datum 2.00 ft higher. July 24, 1931, to Aug. 31, 1948, water-stage recorder at site 2.3 miles upstream at datum 1.71 ft higher than present datum.

AVERAGE DISCHARGE.--42 years, 2,488 cfs (14.14 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,000 cfs Feb. 11 (gage height, 16.55 ft); minimum, 376 cfs Sept. 16 (gage height, 3.13 ft).
Period of record: Maximum discharge, 30,700 cfs Sept. 23, 1945; maximum gage height, 26.72 ft Sept. 23, 1945, site and datum then in use; minimum discharge, 76 cfs Sept. 26, 1968.
Floods of June 1866 and July 1919, reached stages of about 29 and 28 ft, respectively, at site 2.3 miles upstream at present datum, from flood profiles of Corps of Engineers. Flood of Oct. 5, 1929, reached a stage of 27.3 ft at railroad bridge at present datum (discharge, 38,600 cfs).

REMARKS.--Records good. Diversions for municipal water supply for cities of Durham and Butner (see sta 02087000). Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1333: 1931, 1935.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	790	7,720	3,610	1,390	1,850	3,580	2,550	1,650	2,300	2,080	2,480	958
2	906	7,580	3,480	1,330	2,670	3,360	2,820	1,440	2,310	2,080	2,400	1,360
3	2,400	7,630	2,640	1,250	4,080	2,990	3,040	1,950	2,240	1,510	2,110	1,190
4	3,470	7,580	2,210	1,180	5,340	2,660	3,090	3,000	1,900	1,180	1,850	1,110
5	4,040	6,600	1,940	1,150	5,850	2,570	2,890	3,850	1,490	978	1,390	966
6	4,420	5,120	1,910	1,160	6,420	2,340	2,630	4,460	1,140	794	1,210	846
7	4,490	3,950	1,940	1,180	6,920	2,270	2,320	4,620	1,130	890	1,900	914
8	4,420	3,160	2,000	1,190	7,320	2,190	2,210	4,300	1,080	1,010	2,220	1,300
9	4,400	2,630	1,990	1,190	7,660	2,030	2,300	3,940	982	862	1,990	1,120
10	4,630	2,090	1,930	1,250	7,910	1,900	2,570	2,410	866	728	1,610	886
11	4,920	1,710	2,130	2,150	7,990	1,790	2,840	1,940	806	686	1,260	616
12	5,110	1,590	2,130	3,380	7,820	1,740	3,080	2,010	690	978	1,070	461
13	5,240	1,490	1,890	5,260	7,660	1,640	2,840	1,890	613	1,390	760	451
14	5,180	1,490	1,690	6,700	7,310	1,570	2,840	1,480	571	1,750	637	439
15	5,060	1,370	1,730	7,290	7,090	1,610	2,940	1,320	592	2,280	770	407
16	5,040	1,270	1,850	7,550	7,130	1,580	3,010	1,620	567	2,330	942	400
17	5,020	1,200	1,860	7,600	7,280	1,910	2,920	2,540	550	2,220	826	451
18	4,820	1,180	1,550	7,400	7,400	2,990	2,600	3,240	506	1,690	862	461
19	3,420	1,140	1,520	6,000	7,610	3,960	2,200	3,680	432	1,300	902	419
20	2,070	1,150	1,630	4,500	7,740	4,580	1,850	3,850	515	1,140	2,140	529
21	1,650	1,120	1,790	3,600	7,780	4,610	1,650	4,250	958	1,090	2,160	644
22	1,530	1,100	1,960	3,100	7,700	4,140	1,560	4,810	1,300	1,010	1,920	564
23	2,330	1,030	2,340	2,800	7,600	3,650	1,590	5,350	2,300	866	1,390	630
24	3,470	1,010	2,380	2,700	7,400	3,740	1,730	5,700	2,980	739	982	669
25	4,600	1,120	2,200	2,600	6,800	3,800	2,140	5,710	3,330	595	756	543
26	5,330	1,180	1,960	2,540	5,800	3,510	3,040	5,690	3,470	509	648	407
27	6,140	1,790	1,750	2,310	5,000	3,040	3,500	5,630	3,520	480	588	400
28	6,870	2,800	1,620	2,110	4,000	2,710	3,220	5,370	3,640	539	648	480
29	7,470	3,210	1,540	1,960	3,800	2,600	2,480	4,830	3,800	700	866	525
30	7,830	3,480	1,440	1,890	------	2,550	2,030	3,230	2,570	1,420	990	543
31	7,890	------	1,380	1,860	------	2,500	------	2,280	------	1,340	1,030	------
TOTAL	134,956	85,490	61,990	97,640	186,930	86,110	76,480	108,050	49,148	37,164	41,307	20,689
MEAN	4,353	2,850	2,000	3,150	6,446	2,778	2,549	3,485	1,638	1,199	1,332	690
MAX	7,890	7,720	3,610	7,600	7,990	4,610	3,500	5,710	3,800	2,330	2,480	1,360
MIN	790	1,010	1,380	1,180	1,850	1,570	1,560	1,320	432	480	588	400
CFSM	1.82	1.19	.84	1.32	2.70	1.16	1.07	1.46	.69	.50	.56	.29
IN.	2.10	1.33	.96	1.52	2.91	1.34	1.19	1.68	.76	.58	.64	.32

CAL YR 1971 TOTAL 1,012,526 MEAN 2,774 MAX 12,300 MIN 296 CFSM 1.16 IN 15.76
WTR YR 1972 TOTAL 985,954 MEAN 2,694 MAX 7,990 MIN 400 CFSM 1.13 IN 15.35

02089500 Neuse River at Kinston, N. C.

LOCATION.--Lat 35°15'29", long 77°35'09", Lenoir County, on left bank at Kinston, 600 ft downstream from bridge on State Highway 11, and 90 miles upstream from mouth.

DRAINAGE AREA.--2,690 sq mi, approximately.

PERIOD OF RECORD.--February 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 10.90 ft above mean sea level. Prior to Nov. 25, 1934, non-recording gage at highway bridge 1 mile downstream at datum 0.80 ft lower.

AVERAGE DISCHARGE.--42 years, 2,856 cfs (14.42 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,970 cfs Feb. 14 (gage height, 15.38 ft); minimum, 670 cfs Sept. 28 (gage height, 3.43 ft).
Period of record: Maximum discharge, 26,000 cfs Oct. 13, 1964; maximum gage height, 22.86 ft Oct. 13, 1964; minimum discharge, 124 cfs Sept. 26, 1932 (gage height, 1.29 ft, site and datum then in use).
Flood in July 1919 reached a stage of 25.0 ft, present site and datum (discharge, about 39,000 cfs), from information by North Carolina State Highway Commission. Flood in October 1924 reached a stage of 24.7 ft, present site and datum (discharge, 36,000 cfs), from information by North Carolina State Highway Commission. Flood of Sept 25-26, 1928, reached a stage of 24.2 ft, present site and datum (discharge, 34,000 cfs).

REMARKS.--Records good. Diversions for municipal water supply for cities of Durham and Butner (see sta 02087000).

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1333: 1931-32.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,840	7,780	3,370	1,720	2,470	5,320	3,140	2,550	4,520	3,660	1,680	1,370
2	2,360	8,100	3,590	1,690	2,740	4,750	3,150	2,170	3,990	2,800	2,480	1,700
3	2,680	8,320	3,730	3,430	3,270	4,430	3,190	1,890	3,420	2,480	2,650	2,180
4	3,080	8,230	3,700	1,600	3,950	4,140	3,310	2,370	3,000	1,990	2,490	2,030
5	3,580	8,170	3,340	1,540	4,720	3,750	3,400	3,400	2,590	1,620	2,250	1,850
6	3,990	8,050	2,890	1,530	5,440	3,400	3,370	3,690	2,110	1,420	1,860	1,740
7	4,350	7,760	2,600	1,510	6,010	3,130	3,210	4,030	1,670	1,190	1,590	1,520
8	4,560	7,030	2,510	1,490	6,460	2,910	3,000	4,390	1,510	1,140	2,020	1,370
9	4,700	5,550	2,490	1,490	6,840	2,780	2,800	4,620	1,430	1,220	2,390	1,550
10	4,890	4,360	2,460	1,540	7,150	2,620	2,720	4,590	1,330	1,140	2,370	1,500
11	5,130	3,410	2,090	1,970	7,480	2,460	2,800	3,940	1,210	1,040	2,090	1,290
12	5,470	2,840	2,450	2,650	7,800	2,320	2,980	2,910	1,130	1,440	1,690	1,040
13	5,680	2,310	3,360	3,200	8,460	2,230	3,210	2,530	1,020	1,820	1,420	844
14	5,710	2,070	4,220	3,980	8,880	2,150	3,330	2,350	932	1,960	1,160	776
15	5,710	1,980	5,540	5,410	8,900	2,060	3,250	2,210	856	2,070	996	737
16	5,660	1,880	2,100	6,740	8,540	2,060	3,210	1,970	868	2,400	1,010	716
17	5,600	1,750	2,200	7,450	8,160	2,230	3,250	1,980	844	2,540	1,120	748
18	5,530	1,650	2,280	7,820	7,960	2,510	3,230	2,490	816	2,580	1,220	786
19	5,440	1,600	2,070	7,970	8,080	2,860	3,160	2,940	779	2,400	1,280	779
20	5,240	1,580	1,930	7,910	8,170	3,360	2,950	3,370	786	1,880	1,270	730
21	4,250	1,580	2,030	7,580	8,270	3,920	2,510	3,670	1,000	1,540	2,000	751
22	3,410	1,530	2,180	6,790	8,280	4,530	2,150	4,020	1,530	1,420	2,290	872
23	3,740	1,490	5,270	5,620	8,240	4,990	2,000	4,380	1,790	1,320	2,210	844
24	4,440	1,440	4,300	4,540	8,180	4,990	1,940	4,780	2,240	1,210	1,830	836
25	5,130	1,490	2,650	3,920	8,050	4,660	2,080	5,200	2,680	1,120	1,400	884
26	5,380	1,610	2,600	3,560	7,850	4,430	2,390	5,640	3,030	960	1,130	836
27	5,630	1,640	2,430	3,300	7,490	4,290	2,800	5,920	3,260	936	976	706
28	5,990	1,970	2,200	3,040	6,880	4,050	3,200	6,010	3,400	876	1,260	720
29	6,420	2,730	2,030	2,790	6,090	3,650	3,390	5,980	3,520	1,090	1,200	1,140
30	6,860	3,050	1,910	2,610	------	3,260	3,190	5,860	3,700	1,440	1,460	1,360
31	7,330	------	1,810	2,530	------	3,120	------	5,530	------	1,590	1,410	------
TOTAL	149,780	112,900	88,630	118,920	200,810	107,360	88,310	117,380	60,961	52,292	52,202	34,205
MEAN	4,832	3,763	2,859	3,836	6,924	3,463	2,944	3,786	2,032	1,687	1,684	1,140
MAX	7,330	8,320	5,840	7,970	8,900	5,320	3,400	6,010	4,520	3,660	2,650	2,180
MIN	1,840	1,440	1,810	1,490	2,470	2,060	1,940	1,890	779	876	976	706
CFSM	1.80	1.40	1.06	1.43	2.57	1.29	1.09	1.41	.76	.63	.63	.42
IN.	2.07	1.56	1.23	1.64	2.78	1.48	1.22	1.62	.84	.72	.72	.47

CAL YR 1971 TOTAL 437,570 MEAN 1,199 MAX 13,000 MIN 504 CFSM .45 IN 6.05
WTR YR 1972 TOTAL 1,183,750 MEAN 3,234 MAX 8,900 MIN 706 CFSM 1.20 IN 16.37

02090380 Contentnea Creek near Lucama, N. C.

LOCATION.--Lat 35°41'29", long 78°06'29", Wilson County, on right bank 250 ft upstream from bridge on State Highway 581, 1.0 mile upstream from Buckhorn Branch, and 6.5 miles northwest of Lucama.

DRAINAGE AREA.--156 sq mi.

PERIOD OF RECORD.--September 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 117.43 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--8 years, 146 cfs (12.71 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,210 cfs Oct. 24 (gage height, 13.58 ft); minimum, 12 cfs Sept. 17 (gage height, 1.88 ft).
Period of record: Maximum discharge, 5,860 cfs Oct. 6, 1964 (gage height, 16.28 ft); minimum, 0.40 cfs Oct. 7, 1968.

REMARKS.--Records excellent. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	187	130	87	117	180	229	84	97	35	114	19
2	235	165	112	83	330	169	231	76	79	29	118	20
3	341	159	101	81	589	174	189	135	61	26	76	24
4	294	279	104	87	831	175	156	418	58	24	53	22
5	154	438	124	93	817	151	141	559	61	21	52	20
6	103	559	130	94	642	136	141	339	54	19	107	68
7	252	373	120	87	436	127	130	130	47	19	74	162
8	348	189	115	80	300	120	156	104	41	18	83	76
9	277	148	111	69	243	117	243	105	36	16	66	48
10	170	130	105	93	202	111	204	112	34	15	45	37
11	321	121	102	303	181	104	156	93	33	14	33	27
12	381	115	101	373	172	100	150	76	31	19	26	22
13	299	108	101	408	591	100	226	70	28	33	23	18
14	136	105	98	568	895	97	213	80	26	48	32	16
15	95	98	95	648	964	95	222	130	24	35	86	15
16	78	94	97	490	702	97	217	286	22	26	39	14
17	70	91	97	253	445	291	151	420	22	26	27	13
18	65	83	104	186	360	562	117	363	20	26	88	14
19	68	77	101	180	513	657	104	153	19	72	226	14
20	65	77	112	169	637	468	93	124	24	61	189	14
21	72	79	180	166	682	223	87	107	56	33	80	14
22	79	81	193	195	531	223	94	156	151	24	59	14
23	549	74	163	192	349	312	175	457	156	19	44	15
24	2,320	69	123	183	295	256	253	475	84	17	33	18
25	2,710	101	112	162	304	180	297	382	53	18	29	17
26	1,690	171	105	132	289	160	345	250	43	16	26	16
27	949	166	98	117	295	165	249	186	37	13	25	14
28	535	172	95	112	241	157	160	139	32	12	22	19
29	330	190	93	111	198	147	115	104	34	21	24	22
30	243	153	88	121	------	139	97	87	43	139	26	48
31	208	------	87	123	------	153	------	88	------	201	22	------
TOTAL	13,495	4,852	3,497	6,046	13,151	6,146	5,341	6,288	1,506	1,095	1,947	860
MEAN	435	162	113	195	453	198	178	203	50.2	35.3	62.8	28.7
MAX	2,710	559	193	648	964	657	345	559	156	201	226	162
MIN	58	69	87	69	117	95	87	70	19	12	22	13
CFSM	2.79	1.04	.72	1.25	2.90	1.27	1.14	1.30	.32	.23	.40	.18
IN.	3.22	1.16	.83	1.44	3.14	1.47	1.27	1.50	.36	.26	.46	.21

CAL YR 1971 TOTAL 68,517.4 MEAN 188 MAX 2,710 MIN 5.5 CFSM 1.21 IN 16.34
WTR YR 1972 TOTAL 64,224.0 MEAN 175 MAX 2,710 MIN 12 CFSM 1.12 IN 15.31

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-24	2130	13.58	3,210	2-15	0030	8.71	1,030

02090625 Turner Swamp near Eureka, N. C.

LOCATION.--Lat 35°34'10", long 77°52'40", Wayne County, on right bank at downstream side of bridge on Secondary Road 1505, 2.0 miles north of Eureka, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--2.2 sq mi, approximately.

PERIOD OF RECORD.--June 1968 to current year.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Altitude of gage is 90 ft (by barometer).

EXTREMES.--Current year: Maximum discharge, 102 cfs Jan. 13 (gage height, 3.99 ft); minimum, 0.49 cfs July 25, 26, Aug. 4 (gage height, 0.96 ft).
Period of record: Maximum discharge, 114 cfs June 18, 1969 (gage height, 4.12 ft) from rating curve extended above 56 cfs; minimum, 0.29 cfs Oct. 1, 2, 3, 1968 (gage height, 0.87 ft).

REMARKS.--Records good except those for period of no gage-height record, which are fair. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	1.4	1.4	1.4	2.6	2.9	4.0	1.1	1.6	.94	.94	3.3
2	16	1.4	1.3	1.4	15	2.9	3.0	1.1	1.1	.76	.76	6.1
3	8.4	5.0	1.4	1.4	9.4	3.1	2.4	18	1.1	.67	.67	1.7
4	3.8	4.0	5.0	1.4	7.8	2.5	2.4	12	.94	.64	.62	1.1
5	2.5	2.5	2.5	1.5	5.2	2.6	2.2	4.4	.91	1.6	8.6	2.1
6	3.6	1.8	2.0	1.4	4.6	2.4	2.0	2.8	.90	1.4	1.8	1.8
7	2.4	1.5	1.5	1.3	4.4	2.3	2.0	2.1	.94	.94	1.2	1.0
8	1.6	1.4	1.4	1.3	3.7	2.2	3.2	2.2	.80	.73	2.6	.86
9	1.4	1.4	1.4	1.3	3.3	2.0	2.2	2.6	.80	.67	.94	.76
10	6.6	1.4	1.4	5.9	3.0	2.0	2.0	1.7	.83	.64	.80	.70
11	5.5	1.4	1.4	7.8	2.7	1.9	1.9	1.4	.80	.94	.73	.67
12	2.8	1.4	1.4	5.0	4.0	2.0	3.5	1.3	.76	7.6	.70	.67
13	2.0	1.4	1.5	39	22	2.0	3.0	1.2	.76	5.7	.67	.64
14	1.7	1.5	1.6	17	8.6	2.2	2.3	3.5	.73	1.8	.67	.62
15	1.5	1.6	1.6	7.8	5.7	2.2	2.0	5.7	.70	1.1	.67	.62
16	1.6	1.4	1.4	5.5	4.7	2.9	1.7	3.5	.67	.86	.62	.67
17	1.5	1.3	1.6	4.7	5.7	6.8	1.5	1.9	.67	.80	.76	.67
18	1.3	1.3	2.0	4.4	5.7	4.0	1.4	1.5	.67	1.0	5.7	.67
19	1.3	1.3	1.5	4.1	16	2.9	1.3	1.5	.83	.90	1.1	.64
20	1.4	2.5	2.2	3.8	7.1	2.4	1.3	1.4	1.3	.73	1.8	.64
21	1.6	2.0	3.0	4.0	5.2	2.3	1.6	1.6	4.4	.70	.94	.76
22	3.2	1.5	2.0	4.0	4.7	5.7	1.9	3.1	1.5	.67	.76	.76
23	34	1.3	1.5	3.4	4.1	3.8	1.6	5.9	.86	.64	.73	.70
24	10	1.3	1.4	3.1	4.4	2.7	1.7	4.3	.76	.67	.70	.64
25	7.1	5.0	1.4	2.8	4.0	2.4	2.7	3.2	.73	.62	.67	.64
26	5.0	2.5	1.4	2.4	4.0	2.8	1.7	2.7	.73	.60	.67	.62
27	4.5	1.4	1.4	2.4	3.7	2.5	1.4	2.2	.67	.62	.67	.62
28	3.0	1.7	1.4	2.4	3.3	2.3	1.3	1.8	1.5	.80	1.0	2.4
29	2.0	1.5	1.5	2.3	3.1	2.2	1.2	1.6	2.2	2.6	.94	1.4
30	1.5	1.5	1.6	2.8	------	2.4	1.2	1.6	3.5	2.5	.73	1.3
31	1.4	------	1.5	2.7	------	4.9	------	1.7	------	.90	.64	------
TOTAL	155.4	56.6	53.6	149.7	177.7	88.2	61.6	100.6	34.55	41.74	40.80	35.77
MEAN	5.01	1.89	1.73	4.83	6.13	2.85	2.05	3.25	1.15	1.35	1.32	1.19
MAX	34	5.0	5.0	39	22	6.8	4.0	18	4.4	7.6	8.6	6.1
MIN	1.3	1.3	1.3	1.3	2.6	1.9	1.2	1.1	.67	.60	.62	.62
CFSM	2.28	.86	.79	2.20	2.79	1.30	.93	1.48	.52	.61	.60	.54
IN.	2.63	.96	.91	2.53	3.00	1.49	1.04	1.70	.58	.71	.69	.60

CAL YR 1971 TOTAL 1,080.86 MEAN 2.96 MAX 51 MIN .49 CFSM 1.35 IN 18.28
WTR YR 1972 TOTAL 996.26 MEAN 2.72 MAX 39 MIN .60 CFSM 1.24 IN 16.85

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 2	1545	2.56	28	2-13	0745	2.79	32
10-23	0330	3.39	57	5- 3	1845	3.41	58
1-13	1400	3.99	103				

NOTE.--No gage-height record Oct. 26 to Dec. 29.

02091000 Nahunta Swamp near Shine, N. C.

LOCATION.--Lat 35°29'20", long 77°48'22", Greene County, on right bank 10 ft downstream from bridge on Secondary Road 1200, 2 miles upstream from Appletree Swamp, 3.5 miles north of Shine, and 8 miles northwest of Snow Hill.

DRAINAGE AREA.--77.6 sq mi.

PERIOD OF RECORD.--April 1954 to current year. Monthly discharges only for some periods, published in WSP 1723.

GAGE.--Water-stage recorder. Datum of gage is 50.74 ft above mean sea level. Prior to Apr. 1, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--18 years, 86.8 cfs (15.19 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,170 cfs Jan. 14 (gage height, 9.68 ft); minimum, 12 cfs July 11; minimum gage height, 1.81 ft July 23.
Period of record: Maximum discharge, 5,470 cfs Oct. 6, 1964 (gage height, 14.14 ft); minimum, 1.0 cfs Oct. 7, 8, 1954 (gage height, 0.80 ft).

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	95	90	56	98	104	114	34	120	29	195	47
2	387	90	82	56	325	103	87	32	66	21	57	407
3	427	110	80	55	344	113	66	332	47	17	37	174
4	223	120	115	54	319	97	58	1,050	39	15	29	91
5	154	90	119	56	220	93	66	455	34	19	83	274
6	192	80	106	53	174	88	51	176	31	33	65	151
7	175	75	99	46	157	81	48	114	38	24	43	76
8	117	70	95	44	137	79	77	86	31	18	59	56
9	89	65	89	44	120	73	69	100	26	15	35	46
10	262	65	85	99	109	69	53	73	24	13	28	38
11	331	64	80	289	101	66	48	56	24	14	24	34
12	185	64	70	217	107	66	64	48	22	106	21	31
13	128	61	69	586	430	66	93	43	21	175	19	29
14	96	59	64	1,130	446	65	69	49	19	58	20	27
15	84	58	65	820	296	63	52	112	18	45	28	26
16	77	57	65	385	194	64	44	126	17	31	19	66
17	79	55	68	209	181	163	37	66	16	25	16	52
18	69	54	70	182	180	146	33	48	15	22	223	40
19	64	55	61	168	381	101	30	45	15	21	73	33
20	64	70	104	155	285	74	28	45	24	22	279	30
21	67	66	146	153	208	62	31	42	113	17	121	34
22	76	60	114	153	175	156	40	69	92	15	56	32
23	676	56	92	144	153	148	58	153	41	15	41	28
24	658	61	84	124	157	95	54	161	29	50	34	26
25	368	128	80	114	147	72	90	132	24	22	30	24
26	233	102	75	102	140	77	69	150	22	24	27	22
27	180	100	72	97	140	70	53	98	19	40	26	39
28	148	109	68	95	125	63	45	78	21	26	59	55
29	131	102	56	91	116	55	39	63	57	54	139	44
30	105	104	61	100	------	53	36	62	42	139	60	41
31	100	------	61	113	------	106	------	77	------	68	40	------
TOTAL	6,281	2,345	2,585	5,990	5,965	2,731	1,702	4,175	1,107	1,193	1,986	2,073
MEAN	203	78.2	83.4	193	206	88.1	56.7	135	36.9	38.5	64.1	69.1
MAX	676	128	146	1,130	446	163	114	1,050	120	175	279	407
MIN	64	54	56	44	98	53	28	32	15	13	16	22
CFSM	2.62	1.01	1.07	2.49	2.65	1.14	.73	1.74	.48	.50	.83	.89
IN.	3.01	1.12	1.24	2.87	2.86	1.31	.82	2.00	.53	.57	.95	.99

CAL YR 1971 TOTAL 40,310.1 MEAN 110 MAX 1,360 MIN 8.7 CFSM 1.42 IN 19.32
WTR YR 1972 TOTAL 38,133.0 MEAN 104 MAX 1,130 MIN 13 CFSM 1.34 IN 18.28

PEAK DISCHARGE (BASE, 580 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	1530	8.64	790	5- 4	0830	9.24	1,100
1-14	0500	9.68	1,170				

02091500 Contentnea Creek at Hookerton, N. C.

LOCATION.--Lat 35°25'38", long 77°35'09", Greene County, on right bank at Hookerton, 0.3 mile upstream from bridge on State Highway 123, and 2.5 miles upstream from Wheat Swamp Creek.

DRAINAGE AREA.--729 sq mi.

PERIOD OF RECORD.--November 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 14.85 ft above mean sea level (Corps of Engineers bench mark). Prior to Nov. 26, 1934, nonrecording gage at site 200 ft downstream at same datum.

AVERAGE DISCHARGE.--43 years (1929-72), 765 cfs (14.25 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,360 cfs Oct. 31 (gage height, 13.74 ft); minimum, 124 cfs Sept. 27, 28 (gage height, 3.70 ft).
Period of record: Maximum discharge, 17,200 cfs Oct. 7, 1964; maximum gage height, 22.11 ft Oct. 8, 1964; minimum discharge, 15 cfs Oct. 28, 1933 (gage height, 1.22 ft).
Flood of September 1928 reached a stage of 23.3 ft, from floodmark; high water of autumn 1924 was about 0.1 ft lower, from information by local resident.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1333: 1903-35. WSP 1383: Drainage area. WSP 1503: 1951. WSP 1723: 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	411	3,140	705	485	726	1,440	915	835	1,080	343	473	268
2	862	2,810	708	464	893	1,320	918	665	938	392	580	429
3	1,060	2,440	698	447	1,140	1,270	918	565	774	364	591	682
4	1,200	2,070	714	434	1,350	1,200	913	824	636	312	549	705
5	1,300	1,700	725	425	1,540	1,120	905	1,190	523	255	434	605
6	1,450	1,400	716	420	1,710	1,040	885	1,630	423	214	419	588
7	1,600	1,200	697	414	1,860	964	836	1,760	377	210	464	576
8	1,650	1,060	679	408	1,980	906	780	1,790	337	205	478	527
9	1,700	981	667	401	2,050	842	743	1,750	307	187	457	477
10	1,750	947	656	444	2,040	771	720	1,610	280	167	411	425
11	1,750	935	641	706	1,950	703	702	1,400	259	155	348	367
12	1,700	909	618	931	1,770	652	698	1,070	242	254	292	307
13	1,600	841	590	1,150	1,770	612	740	781	227	413	249	258
14	1,510	732	561	1,350	1,780	584	760	606	213	491	212	220
15	1,410	644	537	1,550	1,810	564	800	576	201	514	185	190
16	1,330	582	523	1,750	1,910	553	840	591	191	470	174	172
17	1,280	539	517	2,000	2,080	626	850	644	183	348	161	170
18	1,200	510	518	2,100	2,340	743	840	674	171	286	266	187
19	1,060	488	511	2,200	2,660	847	810	733	159	258	501	181
20	828	485	516	2,200	2,860	936	750	786	159	224	557	170
21	655	488	589	2,000	2,860	1,050	600	809	233	202	644	165
22	600	475	665	1,800	2,700	1,360	440	819	378	186	682	158
23	1,150	453	707	1,600	2,510	1,540	440	793	423	178	655	157
24	1,460	437	731	1,300	2,370	1,660	460	755	433	176	560	157
25	1,870	484	747	1,200	2,250	1,620	535	798	436	188	409	151
26	2,120	550	744	1,050	2,110	1,520	593	936	430	178	304	140
27	2,270	585	713	950	1,970	1,420	644	1,060	383	163	250	128
28	2,490	609	661	950	1,780	1,310	714	1,150	316	178	229	131
29	2,860	640	597	877	1,590	1,170	801	1,180	269	179	392	218
30	3,230	679	546	810	------	1,030	857	1,130	293	272	405	254
31	3,330	------	511	758	------	941	------	1,020	------	363	310	------
TOTAL	48,686	29,813	19,708	33,574	56,359	32,314	22,407	30,930	11,274	8,325	12,641	9,163
MEAN	1,571	994	636	1,083	1,943	1,042	747	998	376	269	408	305
MAX	3,330	3,140	747	2,200	2,860	1,660	918	1,790	1,080	514	682	705
MIN	411	437	511	401	726	553	440	565	159	155	161	128
CFSM	2.16	1.36	.87	1.49	2.67	1.43	1.02	1.37	.52	.37	.56	.42
IN.	2.48	1.52	1.01	1.71	2.88	1.65	1.14	1.58	.58	.42	.65	.47

CAL YR 1971 TOTAL 339,745 MEAN 931 MAX 5,680 MIN 72 CFSM 1.28 IN 17.34
WTR YR 1972 TOTAL 315,194 MEAN 861 MAX 3,330 MIN 128 CFSM 1.18 IN 16.08

02091700 Little Contentnea Creek near Farmville, N. C.

LOCATION.--Lat 35°32'08", long 77°30'41", Pitt County, near center of span on downstream side of bridge on U. S. Highway 264, 1.5 miles upstream from Middle Swamp, and 5.5 miles southeast of Farmville.

DRAINAGE AREA.--93.3 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements water years 1952-54, 1956. October 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (from topographic map). Oct. 1, 1956, to Aug. 19, 1958, and June 23, 1964 to Aug. 24, 1965, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--16 years, 119 cfs (17.32 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,260 cfs Oct. 3 (gage height, 14.80 ft); minimum, 2.3 cfs Aug. 27 (gage height, 7.02 ft).
Period of record: Maximum discharge, 5,170 cfs Oct. 6, 1964 (gage height, 19.65 ft, from floodmarks), from rating curve extended above 1,500 cfs; minimum daily, 0.02 cfs Oct. 2, 3, 1968.
Flood in August and September 1955 reached stages of 18.9 ft and 18.5 ft, respectively.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	584	159	114	50	55	150	70	22	145	63	96	7.0
2	1,130	142	100	46	60	140	150	19	130	33	96	55
3	1,220	132	86	44	100	130	153	20	79	17	57	80
4	1,050	121	93	41	200	100	118	123	52	11	28	56
5	807	108	112	41	300	80	94	290	37	10	25	34
6	627	99	118	40	300	70	82	406	29	13	37	64
7	485	90	116	38	270	60	72	315	25	13	27	67
8	346	77	109	38	200	55	75	132	20	11	20	46
9	239	65	99	38	150	54	89	79	17	8.7	16	26
10	222	57	88	60	130	52	86	62	14	6.4	11	17
11	574	52	80	90	110	50	72	49	12	6.7	8.5	12
12	680	47	74	150	90	48	70	35	11	64	6.6	8.8
13	556	44	69	220	85	46	111	28	9.4	167	5.6	7.2
14	423	41	65	350	150	45	135	45	8.5	132	5.3	5.7
15	266	38	61	700	250	43	119	78	7.5	64	5.3	4.9
16	166	36	58	740	350	42	89	182	6.6	33	4.2	4.3
17	126	34	59	700	500	40	66	177	6.1	20	3.8	4.4
18	102	32	60	450	450	45	50	153	10	17	5.6	36
19	86	30	57	270	400	90	39	210	7.6	25	5.8	42
20	77	33	69	200	350	170	33	159	8.2	25	5.7	19
21	77	37	132	170	400	150	30	101	48	15	4.8	13
22	86	35	172	130	450	120	30	107	72	14	3.7	9.9
23	501	33	166	115	400	120	34	127	38	8.8	3.2	8.4
24	976	33	139	100	300	150	36	159	22	6.6	2.9	7.0
25	955	57	112	95	250	140	44	178	15	5.4	2.7	5.8
26	883	81	93	90	200	100	52	239	11	4.6	2.5	5.2
27	659	85	81	85	170	90	49	238	9.1	64	2.6	4.6
28	456	93	72	75	160	70	37	171	8.5	44	6.7	4.7
29	308	98	65	70	155	60	29	117	40	25	20	12
30	217	116	59	65	------	55	25	90	59	81	20	17
31	178	------	55	70	------	55	------	78	------	92	9.6	------
TOTAL	15,062	2,105	2,833	5,371	6,985	2,620	2,139	4,189	957.5	1,100.2	548.1	683.9
MEAN	486	70.2	91.4	173	241	84.5	71.3	135	31.9	35.5	17.7	22.8
MAX	1,220	159	172	740	500	170	153	406	145	167	96	80
MIN	77	30	55	38	55	40	25	19	6.1	4.6	2.5	4.3
CFSM	5.21	.75	.98	1.85	2.58	.91	.76	1.45	.34	.38	.19	.24
IN.	6.01	.84	1.13	2.14	2.79	1.04	.85	1.67	.38	.44	.22	.27

CAL YR 1971 TOTAL 55,844.6 MEAN 153 MAX 1,560 MIN 2.4 CFSM 1.64 IN 22.27
WTR YR 1972 TOTAL 44,593.7 MEAN 122 MAX 1,220 MIN 2.5 CFSM 1.31 IN 17.78

PEAK DISCHARGE (BASE, 660 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 3	0600	14.80	1,260	10-24	1100	14.21	1,010
10-11	2400	13.30	710	1-16	Unknown	Unknown	Unknown

NOTE.--No gage-height record Jan. 7 to Apr. 2.

02091960 Creeping Swamp near Calico, N. C.

LOCATION.--Lat 35°25'42", long 77°11'12", Beaufort County, on left bank at downstream side of bridge on State Highway 102, 4.2 miles northeast of Calico, and 4.5 miles upstream from mouth.

DRAINAGE AREA.--9.8 sq mi, approximately.

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 27.98 ft above mean sea level (Soil Conservation Service bench mark).

EXTREMES.--Current year: Maximum discharge, 1,000 cfs Oct. 1 (gage height, 8.92 ft); no flow Sept. 24-30. Period of record: Maximum discharge, 1,000 cfs Oct. 1, 1971 (gage height, 8.92 ft); no flow at times each year.

REMARKS.--Records good except those for period of no gage-height record or below 15 cfs, which are poor. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	842	24	7.3	1.6	16	18	29	.24	163	.26	11	.19
2	453	24	6.4	1.6	58	14	33	.19	100	.22	9.5	1.3
3	215	30	6.0	1.9	142	15	26	1.5	61	.18	8.0	25
4	120	40	12	1.5	114	13	21	8.1	35	.16	5.7	17
5	75	35	16	1.5	86	12	17	14	19	.15	4.7	12
6	61	30	17	.93	61	1	13	9.6	15	.15	7.7	9.0
7	59	23	15	.79	46	8.3	10	5.7	11	.15	11	6.0
8	47	17	13	.56	36	6.6	12	2.2	8.6	.15	13	4.5
9	34	13	10	.58	27	4.7	11	1.3	7.0	.14	11	3.0
10	55	10	8.4	3.2	22	3.1	11	.27	4.7	.13	9.0	2.1
11	101	7.7	6.7	36	18	1.9	8.8	.14	3.4	.12	8.0	1.5
12	83	5.7	5.4	68	17	1.1	9.6	.14	2.5	.21	6.6	.80
13	58	4.0	4.0	67	104	.75	16	.11	2.0	4.5	5.6	.50
14	41	2.9	2.9	92	131	.45	17	.11	1.6	15	4.8	.30
15	29	2.1	2.4	96	84	.29	14	.14	1.2	24	4.0	.17
16	23	1.3	1.8	91	58	.87	11	.13	.86	27	3.0	.10
17	18	.86	2.1	65	53	39	7.0	.10	.65	26	2.4	.06
18	14	.58	2.5	49	55	66	3.8	.09	.51	25	1.7	.04
19	11	.29	2.1	39	75	53	1.9	.08	.37	16	1.0	.02
20	9.9	1.3	4.5	32	79	36	.79	.07	.27	11	1.2	.02
21	9.1	1.0	13	26	60	27	1.2	.08	.37	10	1.5	.01
22	15	.72	19	27	45	47	1.0	.18	.65	8.8	2.7	.01
23	269	.51	16	29	34	79	1.0	.65	.86	9.2	2.7	0
24	364	.58	13	31	27	62	.93	2.2	1.3	10	1.6	0
25	198	2.7	10	29	22	44	4.3	2.5	1.3	10	1.0	0
26	126	3.6	8.4	24	20	34	7.7	2.9	.86	8.4	.79	0
27	83	5.7	6.7	19	23	27	7.3	2.7	.79	6.4	.51	0
28	61	7.3	5.4	15	23	22	4.0	1.9	.65	5.7	.30	0
29	46	8.0	4.3	13	21	17	1.9	1.2	.51	6.7	.26	0
30	36	8.4	3.4	13	------	14	.65	15	.37	8.4	.23	0
31	29	------	2.4	15	------	20	------	50	------	9.6	.21	------
TOTAL	3,605.0	311.24	247.1	886.18	1,517	699.05	302.87	123.45	444.52	243.74	139.80	83.62
MEAN	116	10.4	7.97	28.6	52.3	22.6	10.1	3.98	14.8	7.86	4.51	2.79
MAX	842	40	19	96	131	79	33	50	163	27	13	25
MIN	9.1	.29	1.8	.58	16	.26	.65	.07	.27	.12	.21	0
CFSM	11.8	1.06	.81	2.92	5.34	2.31	1.03	.41	1.51	.80	.46	.28
IN.	13.68	1.18	.94	3.36	5.76	2.65	1.15	.47	1.69	.93	.53	.32

WTR YR 1972, TOTAL 8,603.57 MEAN 23.5 MAX 842 MIN 0 CFSM 2.40 IN 32.66

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 1	1145	8.92	1,000	2-13	2100	6.77	149
10-11	0915	6.53	105	2-19	2315	6.38	83
10-23	2045	7.94	496	3-18	0200	6.27	70
1-15	1830	6.50	100	3-23	0345	6.36	80
2- 4	0130	6.60	117	5-31	1900	7.43	314

NOTE.--No gage-height record June 1 to Sept. 19.

02091970 Creeping Swamp near Vanceboro, N. C.

LOCATION.--Lat 35°23'30", long 77°13'46", Craven County, on left bank at downstream side of bridge on State Highway 43, 1.0 mile upstream from mouth, and 7.9 miles northwest of Vanceboro.

DRAINAGE AREA.--27 sq mi, approximately.

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 16.60 ft above mean sea level (Soil Conservation Service bench mark).

EXTREMES.--Current year: Maximum discharge, 1,810 cfs Oct. 1 (gage height 7.93 ft); minimum, 0.02 cfs July 10, 11 (gage height, 1.42 ft).
Period of record: Maximum discharge, 1,810 cfs Oct. 1, 1971 (gage height, 7.93 ft); no flow June 26 to July 1, 1971.

REMARKS.--Records good except those below 10 cfs, which are poor. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,350	64	24	15	31	43	76	9.6	297	.53	18	1.0
2	1,460	53	23	14	94	37	82	8.[illegible]	335	.32	15	11
3	830	67	22	14	188	38	73	9.4	218	.16	13	14
4	467	115	35	14	272	34	60	25	123	.06	10	43
5	294	109	44	13	257	29	48	22	68	.18	13	58
6	202	91	44	13	194	26	37	20	39	.38	15	43
7	157	73	43	12	140	23	29	19	25	.40	20	27
8	122	58	41	11	101	21	28	17	18	.25	26	21
9	94	46	37	10	76	19	26	15	13	.13	21	18
10	115	37	31	12	59	17	24	12	9.4	.05	16	15
11	190	31	27	43	47	15	22	10	6.9	.17	13	13
12	224	25	24	93	42	14	23	7.6	4.9	28	12	10
13	190	22	22	132	179	13	31	5.9	3.6	45	11	7.6
14	137	19	20	157	304	12	32	5.0	2.6	44	8.2	4.2
15	94	17	18	186	285	12	31	5.4	2.0	53	6.0	3.0
16	67	16	17	218	200	12	28	5.7	1.5	39	4.0	2.0
17	50	14	17	184	147	63	23	5.1	1.1	24	2.5	1.6
18	38	13	17	142	133	124	19	4.2	.78	19	2.2	1.1
19	29	12	17	106	159	147	16	3.5	.62	19	1.8	.80
20	24	14	19	82	184	124	14	2.9	.64	19	1.5	.65
21	21	14	30	69	172	88	13	2.9	1.7	19	1.1	.62
22	26	14	36	62	133	101	13	6.4	6.2	16	.93	.46
23	345	13	37	64	98	150	14	9.6	7.0	13	.78	.37
24	935	13	38	66	75	165	14	11	5.7	12	1.1	.25
25	714	17	34	62	60	133	16	12	3.4	13	1.4	.17
26	454	18	29	55	52	98	15	14	2.3	14	1.3	.12
27	299	19	25	47	57	75	12	15	1.7	12	1.0	.07
28	206	21	22	39	55	58	13	14	1.2	11	.74	.06
29	145	22	20	32	49	46	13	13	.96	12	.67	.08
30	106	24	18	29	------	37	11	13	.77	18	.54	.07
31	80	------	16	31	------	48	------	57	------	21	.36	------
TOTAL	9,465	1,071	847	2,027	3,843	1,822	856	380.2	1,200.97	453.63	239.12	297.22
MEAN	305	35.7	27.3	65.4	133	58.8	28.5	12.3	40.0	14.6	7.71	9.91
MAX	1,460	115	44	218	304	165	82	57	335	53	26	58
MIN	21	12	16	10	31	12	11	2.9	.62	.05	.36	.06
CFSM	11.3	1.32	1.01	2.42	4.93	2.18	1.06	.46	1.48	.54	.29	.37
IN.	13.04	1.48	1.17	2.79	5.29	2.51	1.18	.52	1.65	.63	.33	.41

CAL YR 1971 TOTAL 11,383.00 MEAN 31.2 MAX 1,460 MIN 0 CFSM 1.16 IN 15.68
WTR YR 1972 TOTAL 22,502.14 MEAN 61.5 MAX 1,460 MIN .05 CFSM 2.28 IN 31.00

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 1	1945	7.93	1,810	2-14	1630	4.92	321
10-24	1015	6.66	1,000	6- 1	2345	5.10	370
2- 4	1400	4.75	281				

02092000 Swift Creek near Vanceboro, N. C.

LOCATION.--Lat 35°20'42", long 77°11'45", Craven County, on left bank at downstream side of bridge on Secondary Road 1478, 2.5 miles upstream from bridge on State Highway 118, 2.5 miles downstream from Clayroot Swamp, and 3.5 miles northwest of Vanceboro.

DRAINAGE AREA.--182 sq mi.

PERIOD OF RECORD.--January 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2.07 ft below mean sea level (Corps of Engineers bench mark). Prior to Jan. 17, 1951, nonrecording gage and Jan. 17, 1951, to Sept. 30, 1964, water-stage recorder at same site at datum 6.00 ft higher.

AVERAGE DISCHARGE.--22 years, 204 cfs (15.21 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,010 cfs Oct. 3 (gage height, 16.97 ft); minimum, 13 cfs Sept. 27-29 (gage height, 4.28 ft).
Period of record: Maximum discharge, 6,060 cfs Sept. 22, 1955 (gage height, 19.67 ft, present datum); no flow Aug. 8-29, Oct. 4 to Nov. 9, 1954.
Flood in 1909 reached a stage of 22 ft, present datum, and flood in 1928 reached a stage of 17.7 ft, present datum, from information by local resident.

REMARKS.--Records good. During 1964, the channel was canalized from a point 12.2 miles upstream to a point 2.5 miles downstream from the gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,800	430	186	119	208	238	334	85	1,250	40	208	47
2	3,410	358	171	115	406	214	349	74	1,400	36	160	179
3	3,970	385	161	113	735	212	311	77	1,110	29	121	316
4	3,860	465	211	109	949	225	266	253	677	24	89	260
5	3,260	414	275	109	961	210	229	315	396	25	130	214
6	2,370	370	272	108	892	191	201	254	268	30	152	179
7	1,700	319	254	103	770	176	179	187	191	30	133	154
8	1,230	270	231	98	578	165	171	148	153	26	227	120
9	898	232	208	91	411	150	183	127	119	22	191	91
10	735	202	190	96	322	138	173	109	95	19	88	71
11	880	188	177	300	268	128	160	90	77	20	98	56
12	910	174	167	497	242	120	156	74	64	186	74	46
13	870	162	158	572	658	116	205	62	55	369	58	39
14	790	150	150	772	973	111	223	58	47	320	47	34
15	630	141	143	898	982	107	200	122	43	244	42	29
16	467	133	137	1,010	868	107	175	184	38	181	36	26
17	358	126	136	1,000	715	338	153	171	35	135	32	24
18	294	117	141	872	636	540	132	133	32	119	30	22
19	251	111	142	700	710	554	116	132	30	142	28	20
20	224	115	149	532	810	469	103	131	30	121	36	18
21	206	126	233	414	765	360	93	106	41	93	44	17
22	212	124	284	373	658	405	96	188	104	139	34	16
23	1,050	115	260	368	503	678	106	276	99	128	28	16
24	1,890	112	231	366	311	720	104	268	72	129	23	16
25	2,290	137	205	336	325	636	136	238	55	168	20	15
26	2,290	174	181	297	280	510	187	269	45	149	20	14
27	2,000	173	169	258	300	388	161	298	38	144	23	13
28	1,550	180	155	228	297	315	134	257	34	178	35	13
29	1,170	184	145	202	268	262	115	210	32	192	36	13
30	802	189	134	192	------	223	98	210	31	242	82	17
31	565	------	126	205	------	249	------	336	------	287	55	------
TOTAL	42,932	6,376	5,782	11,453	16,801	9,255	5,249	5,442	6,661	3,967	2,380	2,095
MEAN	1,385	213	187	369	579	299	175	176	222	128	76.8	69.8
MAX	3,970	465	284	1,010	982	720	349	336	1,400	369	227	316
MIN	206	111	126	91	208	107	93	58	30	19	20	13
CFSM	7.61	1.17	1.03	2.03	3.18	1.64	.96	.97	1.22	.70	.42	.38
IN.	8.78	1.30	1.18	2.34	3.43	1.89	1.07	1.11	1.36	.81	.49	.43

CAL YR 1971 TOTAL 122,141 MEAN 335 MAX 3,970 MIN 19 CFSM 1.84 IN 24.97
WTR YR 1972 TOTAL 118,393 MEAN 323 MAX 3,970 MIN 13 CFSM 1.77 IN 24.20

02092020 Palmetto Swamp near Vanceboro, N. C.

LOCATION.--Lat 35°20'18", long 77°10'16", Craven County, on left bank at upstream side of bridge on State Highway 43, 1.3 miles upstream from mouth, and 2.5 miles northwest of Vanceboro.

DRAINAGE AREA.--24 sq mi, approximately.

PERIOD OF RECORD.--Annual maximum, water years 1953-70 and occasional low-flow measurements water years 1956-68, 1970. March 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2.46 ft above mean sea level (Soil Conservation Service bench mark). Dec. 3, 1952 to Feb. 28, 1971, crest-stage gage 40 ft upstream from bridge at datum 14.31 ft lower.

EXTREMES.--Current year: Maximum discharge, 1,560 cfs Oct. 1 (gage height, 8.42 ft); no flow Sept. 24-30.
Period of record: Maximum discharge, 3,700 cfs Sept. 20, 1955 (gage height, 26.14 ft), site and datum then in use; no flow at times during several years.

REMARKS.--Records good except those below 10 cfs and those for period of no gage-height record, which are poor.

REVISIONS.--Revised figures of discharge, in cubic feet per second, for low-water periods in the water year 1971, superseding those published in WRD 1971, are given herewith:

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
1971		1971-Con.		1971-Con.		1971-Con.	
Apr. 25	5.5	May 12	1.0	June 15	.16	June 26	0
26	5.0	June 5	4.5	16	.12	27	0
27	4.5	6	3.0	17	.09	28	0
May 4	5.4	7	2.1	18	.10	29	0
5	4.6	8	1.6	19	.13	30	0
6	3.7	9	1.2	20	.09	July 1	0
7	2.9	10	.84	21	.04	2	1.0
8	2.4	11	.60	22	.02	17	5.2
9	1.9	12	.45	23	.01	18	4.2
10	1.5	13	.30	24	.02	19	3.0
11	1.2	14	.22	25	.01	20	5.4

Month	Cfs-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
April 1971.....	761.4	99	4.5	25.4	1.06	1.18
May.....	1,433.2	200	1.0	46.2	1.92	2.22
June.....	56.60	15	0	1.89	.08	.09
July.....	751.4	85	0	24.2	1.01	1.16

02092020 Palmetto Swamp near Vanceboro, N. C.-Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,370	26	21	11	27	21	64	3.7	396	.37	.68	2.4
2	876	23	20	11	102	17	68	3.2	252	.29	.50	7.7
3	372	23	19	12	175	16	49	7.5	114	.24	.38	6.4
4	247	29	28	13	204	14	33	74	54	.20	.32	3.6
5	138	36	32	14	153	13	22	46	25	.27	.45	2.9
6	81	33	34	13	102	12	17	48	12	.41	.62	1.7
7	64	25	29	12	74	11	13	22	8.6	.33	.84	1.1
8	56	22	25	11	59	9.8	13	12	6.4	.25	.66	.80
9	46	20	22	9.8	45	9.9	13	8.4	4.7	.19	.50	.54
10	56	17	20	11	35	7.9	12	6.4	3.4	.13	.40	.40
11	96	15	19	46	28	7.2	11	5.1	2.6	5.0	.32	.27
12	100	14	17	98	25	6.7	12	3.8	2.1	42	.25	.20
13	74	13	17	113	223	5.4	16	3.1	1.5	63	.20	.14
14	56	12	16	110	260	6.1	17	3.2	1.2	48	.16	.10
15	43	11	16	146	155	5.9	17	12	.92	19	.13	.08
16	33	11	15	166	100	5.1	13	33	.70	8.9	.10	.06
17	28	10	16	121	36	81	9.6	27	.52	5.6	.08	.04
18	24	9.5	20	85	99	116	7.7	13	.40	3.6	.07	.04
19	21	9.2	21	66	154	93	6.5	7.7	.31	2.5	.05	.03
20	20	10	26	53	169	61	5.5	5.5	.25	2.0	.05	.02
21	19	11	38	47	112	39	5.1	4.8	.45	1.9	.04	.02
22	25	11	42	44	78	30	5.6	13	.80	2.1	.03	.02
23	450	10	41	57	55	127	7.7	21	1.3	1.5	.03	.01
24	633	11	43	66	42	103	7.9	27	2.6	1.0	.03	0
25	242	15	27	81	33	60	8.9	29	1.7	.66	.02	0
26	141	17	22	47	29	46	8.1	30	1.3	.49	.07	0
27	83	19	19	36	31	33	7.1	28	1.0	.42	.18	0
28	57	21	17	29	29	27	6.1	22	.86	.58	.45	0
29	43	21	15	24	26	28	5.2	17	.60	.80	.81	0
30	35	23	13	23	------	17	4.4	31	.48	1.1	1.4	0
31	30	------	12	26	------	38	------	98	------	1.4	2.4	------
TOTAL	5,560	528.7	713	1,581.8	2,714	1,116.0	485.4	702.5	897.93	214.23	12.22	28.57
MEAN	179	17.6	23.0	51.0	93.6	36.0	16.2	22.7	29.9	6.91	.39	.95
MAX	1,370	36	42	166	260	127	68	98	396	63	2.4	7.7
MIN	19	9.2	12	9.8	26	5.9	4.4	3.1	.25	.13	.02	0
CFSM	7.46	.73	.96	2.13	3.90	1.50	.68	.95	1.25	.29	.02	.04
IN.	8.62	.82	1.11	2.45	4.21	1.73	.75	1.09	1.39	.33	.02	.04

WTR YR 1972 TOTAL 14,554.35 MEAN 39.8 MAX 1,370 MIN 0 CFSM 1.66 IN 22.56

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 1	1500	8.42	1,560	2-14	0230	5.71	298
10-12	0030	5.28	110	2-20	0545	5.23	186
10-24	0045	7.32	920	3-18	1030	4.87	124
1-13	0100	4.81	114	3-23	1400	4.96	138
1-16	0715	5.16	173	6- 1	1230	6.02	423
2- 3	2315	5.40	220				

NOTE.--No gage-height record July 19 to Sept. 1.

02092500 Trent River near Trenton, N. C.

LOCATION.--Lat 35°03'54", long 77°27'24", Jones County, on left bank 50 ft downstream from Free Bridge on Secondary Road 1129, 800 ft downstream from Little Chinquapin Branch, 1.5 miles southwest of Phillips Crossroads, and 6 miles west of Trenton.

DRAINAGE AREA.--168 sq mi.

PERIOD OF RECORD.--January 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 19.15 ft above mean sea level. Prior to Mar. 21, 1951, non-recording gage on bridge 50 ft upstream at same datum.

AVERAGE DISCHARGE.--21 years, 200 cfs (16.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,550 cfs Oct. 27 (gage height, 14.49 ft from high-water mark in well); minimum, 16 cfs June 19, 20 (gage height, 2.98 ft).
Period of record: Maximum discharge, 9,100 cfs Sept. 21, 1955 (gage height, 17.84 ft); minimum, 1.3 cfs Oct. 11-15, 1954.
Flood in 1928 reached a stage of 17.3 ft (discharge, 7,600 cfs), from information furnished by North Carolina State Highway Commission.

REMARKS.--Records good except those for periods of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	480	680	155	100	320	209	331	60	22[illegible]	210	240	37
2	688	550	149	96	484	168	386	53	230	330	210	50
3	1,140	500	140	95	725	198	433	48	227	360	160	110
4	1,390	420	162	94	1,160	237	427	83	186	340	140	180
5	1,300	380	210	90	1,390	234	377	199	134	460	120	250
6	1,020	363	244	86	1,310	219	311	320	99	580	100	270
7	779	329	265	82	1,010	207	241	393	72	700	90	250
8	617	293	269	78	743	193	190	375	54	700	80	200
9	491	256	253	74	580	170	164	257	44	600	90	160
10	442	223	226	74	467	149	149	160	37	520	90	130
11	488	193	195	101	380	132	131	109	33	500	86	100
12	564	169	169	182	319	118	122	85	29	600	66	84
13	634	153	151	267	508	109	137	70	26	1,050	54	70
14	610	140	139	350	559	101	155	58	25	1,860	44	60
15	534	130	129	542	768	96	157	79	22	1,680	38	50
16	445	121	120	721	964	91	144	158	20	1,420	32	42
17	354	116	128	835	821	252	128	207	18	1,200	30	38
18	280	110	168	791	711	385	111	207	17	1,010	32	72
19	222	103	204	676	664	469	94	166	16	791	32	110
20	180	96	219	566	652	495	80	135	16	615	37	150
21	180	89	229	480	650	434	70	118	42	459	38	155
22	170	84	234	418	622	393	68	205	78	297	36	148
23	170	81	228	459	562	433	82	280	130	216	38	129
24	660	79	213	524	493	463	100	349	150	167	40	101
25	1,250	94	191	572	420	469	107	447	130	145	41	77
26	2,400	119	170	570	354	441	104	489	100	143	36	62
27	2,500	136	153	518	311	403	101	462	76	150	31	53
28	2,400	145	139	446	263	367	90	419	66	160	34	49
29	2,000	148	127	370	234	332	77	381	58	170	41	103
30	1,400	154	115	319	------	297	68	332	120	200	41	124
31	1,000	------	107	309	------	290	------	255	------	250	39	------
TOTAL	26,788	6,454	5,601	10,885	18,444	8,554	5,135	6,959	2,480	17,883	2,186	3,414
MEAN	864	215	181	351	636	276	171	224	82.7	577	70.5	114
MAX	2,500	680	269	835	1,390	495	433	489	230	1,860	240	270
MIN	170	79	107	74	234	91	68	48	16	143	30	37
CFSM	5.14	1.28	1.08	2.09	3.79	1.64	1.02	1.33	.49	3.43	.42	.68
IN.	5.93	1.43	1.24	2.41	4.08	1.89	1.14	1.54	.55	3.96	.48	.76

CAL YR 1971 TOTAL 47,210 MEAN 129 MAX 2,500 MIN 16 CFSM .77 IN 10.45
WTR YR 1972 TOTAL 114,783 MEAN 314 MAX 2,500 MIN 16 CFSM 1.87 IN 25.42

02093000 New River near Gum Branch, N. C.

LOCATION.--Lat 34°50'56", long 77°31'11", Onslow County, on left bank 8 ft downstream from bridge on Secondary Road 1314, 0.7 mile downstream from Jenkins Swamp, 1.8 miles southwest of Gum Branch, and 3.8 miles southeast of Richlands.

DRAINAGE AREA.--74.5 sq mi.

PERIOD OF RECORD.--August 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Aug. 19, 1949, to Mar. 22, 1950, nonrecording gage and Mar. 23, 1950 to Mar. 25, 1969, water-stage recorder at site 0.2 mile upstream at datum 2.52 ft higher.

AVERAGE DISCHARGE.--23 year, 112 cfs (20.42 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,420 cfs Oct. 24 (gage height, 16.79 ft); minimum, 16 cfs June 19 (gage height, 1.78 ft).
Period of record: Maximum discharge, 7,900 cfs Sept. 20, 1955 (gage height, 19.99 ft, from floodmark, site and datum then in use); minimum, 1.8 cfs Oct. 7, 1954.
Flood of 1908 reached a stage of about 18 ft, at former site and datum, from information by local resident.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6 3	232	85	47	218	124	187	49	136	5.1	152	41
2	699	2 8	77	59	642	116	165	44	97	371	131	504
3	557	212	76	70	767	222	130	44	69	214	103	338
4	377	212	10	64	956	192	108	217	51	306	82	176
5	270	189	150	67	653	156	95	176	41	494	76	350
6	214	157	136	57	419	127	83	1 2	33	582	74	339
7	179	144	117	53	328	112	77	74	34	533	86	212
8	142	123	1 6	48	267	101	77	59	32	322	96	136
9	117	113	92	45	223	9	7-	57	29	199	68	95
10	309	107	85	48	193	83	70	50	29	137	52	73
11	455	100	80	102	170	76	64	43	37	487	45	57
12	363	93	82	195	166	73	68	39	25	1,530	38	47
13	238	87	84	177	867	79	138	34	22	2,050	35	38
14	178	81	78	515	804	67	111	39	20	1,290	34	35
15	141	79	69	710	542	64	87	92	13	911	39	31
16	117	78	65	705	378	64	72	132	17	589	32	40
17	109	73	71	470	392	402	59	68	17	511	30	79
18	94	72	105	340	409	369	50	62	17	382	43	140
19	86	71	95	285	516	240	45	72	16	271	51	128
20	87	67	89	243	448	186	42	60	21	207	73	89
21	87	63	96	241	332	131	56	53	222	156	47	64
22	264	56	89	246	264	250	132	275	269	127	35	57
23	2,850	52	80	374	220	320	279	324	159	106	46	50
24	3,090	56	76	409	195	253	189	272	86	189	39	41
25	2,150	108	71	328	174	169	127	215	57	189	32	35
26	1,310	100	66	251	157	195	104	171	43	151	39	30
27	664	96	62	207	170	136	85	152	36	174	32	26
28	455	92	59	180	158	174	71	128	71	188	28	32
29	360	92	56	165	140	144	60	108	786	286	37	59
30	303	97	53	189	------	123	53	93	1,210	316	31	46
31	257	------	52	231	------	140	------	115	------	210	25	----
TOTAL	17,145	3,320	2,658	7,115	11,226	4,991	2,967	3,439	3,700	14,279	1,737	3,391
MEAN	553	111	85.7	230	387	161	98.9	111	123	461	56.0	113
MAX	3,090	232	160	710	956	402	279	324	1,210	2,050	158	504
MIN	86	52	52	45	140	64	42	34	16	106	25	26
CFSM	7.42	1.49	1.15	3.09	5.19	2.16	1.33	1.49	1.65	6.19	.75	1.52
IN.	8.56	1.66	1.33	3.55	5.61	2.49	1.48	1.72	1.85	7.13	.87	1.69

CAL YR 1971 TOTAL 69,198 MEAN 190 MAX 3,090 MIN 16 CFSM 2.55 IN 34.55
WTR YR 1972 TOTAL 75,968 MEAN 208 MAX 3,090 MIN 16 CFSM 2.79 IN 37.93

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 2	1200	7.92	719	6-30	1030	10.90	1,250
10-24	0030	16.79	3,420	7- 6	1630	7.34	621
11-15	1730	8.67	820	7-13	0300	14.46	2,210
2- 4	0330	9.77	1,020	9- 2	1230	7.57	655
2-13	2230	9.57	984				

02093800 Reedy Fork near Oak Ridge, N. C.

LOCATION.--Lat 36°10'24", long 79°57'15", Guilford County, on left bank at downstream side of bridge on Secondary Road 2128, 0.8 mile downstream from Beaver Creek, and 2 miles east of Oak Ridge.

DRAINAGE AREA.--19.9 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 771.30 ft above mean sea level. Prior to Dec. 13, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--17 years, 21.5 cfs (14.66 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,990 cfs June 21 (gage height, 12.29 ft); minimum, 6.2 cfs Sept. 14, 15, 16, 19, 25, 26, 27 (gage height, 3.11 ft); minimum daily, 6.9 cfs Sept. 4.
Period of record: Maximum discharge, 3,950 cfs Oct. 10, 1959 (gage height, 10.94 ft), from rating curve extended above 1,500 cfs on basis of contracted-opening measurement of peak flow; minimum, 1.5 cfs Sept. 24, 1968.

REMARKS.--Records fair. Some diurnal fluctuation at low flow caused by mill upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	14	18	15	14	20	33	15	19	18	14	8.3
2	47	14	16	17	33	25	27	15	15	16	12	8.3
3	16	43	16	16	139	24	23	22	14	15	11	7.4
4	11	27	18	21	156	21	22	40	13	14	25	6.9
5	11	19	19	23	40	19	20	20	13	39	49	27
6	13	16	19	18	30	18	19	16	12	21	17	16
7	10	16	41	17	27	18	19	15	13	17	14	10
8	9.6	14	36	16	22	23	57	25	12	16	14	9.6
9	9.6	13	25	17	20	20	28	41	12	15	11	8.8
10	23	40	22	27	19	18	23	21	13	14	11	7.9
11	14	15	20	33	19	17	22	17	11	19	10	7.5
12	11	14	18	30	20	18	49	16	11	22	10	7.7
13	10	14	18	33	54	17	36	15	11	18	10	7.9
14	9.8	14	17	41	32	18	27	206	11	17	9.8	8.3
15	8.8	14	17	29	26	17	23	76	10	17	9.4	7.2
16	48	13	17	21	23	23	21	38	10	17	8.5	7.2
17	21	13	32	19	27	33	19	27	10	14	9.4	7.5
18	16	13	17	20	25	22	17	23	14	12	8.8	9.0
19	14	13	16	21	29	20	17	90	11	12	8.8	7.2
20	14	12	22	20	22	18	17	76	29	12	8.8	7.2
21	16	13	19	27	22	18	18	38	1,170	11	8.1	7.2
22	19	12	16	21	22	49	32	29	176	11	7.9	7.0
23	174	12	16	19	22	28	25	32	45	10	8.1	7.9
24	223	35	15	18	26	22	19	25	32	10	8.8	7.2
25	69	44	15	18	23	22	18	22	27	10	8.1	7.4
26	35	23	15	17	25	23	16	18	22	9.6	8.3	8.1
27	26	30	15	17	22	22	16	17	19	9.4	7.9	8.3
28	21	26	15	18	21	21	15	17	36	9.8	13	13
29	18	24	14	16	20	20	15	18	39	21	9.6	21
30	16	21	15	16	------	20	15	18	22	20	8.3	36
31	15	------	17	16	------	36	------	20	------	19	8.1	------
TOTAL	962.8	591	596	657	980	690	708	1,068	1,852	485.8	367.7	310.0
MEAN	31.1	19.7	19.2	21.2	33.8	22.3	23.6	34.5	61.7	15.7	11.9	10.3
MAX	223	44	41	41	156	49	57	206	1,170	39	49	36
MIN	8.8	12	14	15	14	17	15	15	10	9.4	7.9	6.9
CFSM	1.56	.99	.96	1.07	1.70	1.12	1.19	1.73	3.10	.79	.60	.52
IN.	1.80	1.10	1.11	1.23	1.83	1.29	1.32	2.00	3.46	.91	.69	.58

CAL YR 1971 TOTAL 8,271.6 MEAN 22.7 MAX 393 MIN 7.3 CFSM 1.14 IN 15.46
WTR YR 1972 TOTAL 9,268.3 MEAN 25.3 MAX 1,170 MIN 6.9 CFSM 1.27 IN 17.33

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-24	0330	7.79	428	5-14	1730	7.58	386
2- 4	0030	7.84	438	6-21	1430	12.29	2,990

02094500 Reedy Fork near Gibsonville, N. C.

LOCATION.--Lat 36°10'31", long 79°36'57", Guilford County, on right bank 0.2 mile downstream from Huffines Mill on Secondary Road 2774, 1.2 miles upstream from Buffalo Creek, and 6 miles northwest of Gibsonville.

DRAINAGE AREA.--133 sq mi.

PERIOD OF RECORD.--September 1928 to current year.

GAGE.--Water-stage recorder and rock-masonry control. Datum of gage is 626.88 ft above mean sea level.

AVERAGE DISCHARGE.--44 years, 99.6 cfs (10.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,660 cfs June 21 (gage height, 14.92 ft, from high-water mark in well); minimum, 5.8 cfs Aug. 26 (gage height, 0.77 ft); minimum daily, 6.0 cfs Sept. 4.
Period of record: Maximum discharge, 11,600 cfs Sept. 25, 1947 (gage height, 20.77 ft); minimum daily, 0.4 cfs Oct. 14, 1954.
Flood in July 1916 reached a stage of 17.90 ft, from information by local resident (discharge, 8,640 cfs).

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow partly regulated since 1923 by Lake Brandt 14 miles upstream (see p. 145), since 1957 by Lake Higgins on Brush Creek, a tributary to Lake Brandt, (see p. 145), since 1943 by Richland Lake 12 miles above station, and since 1968 by Lake Townsend 9 miles above station. City of Greensboro diverted from Lake Brandt an average of 19.9 cfs and an average of 17.1 cfs from Lake Townsend for municipal supply. Cone Mills diverted from Richland Lake an average of 1.5 cfs during the year.

REVISIONS (WATER YEARS).--WSP 1303: 1929-40 (monthly and yearly runoff). WSP 1383: 1929-30, 1933(M), 1934, 1937(M), 1939-42(M), 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	89	152	78	20	363	47	24	100	300	21	8.0
2	124	138	154	30	100	273	33	23	40	100	24	9.0
3	30	142	86	35	200	35	27	109	34	35	20	7.0
4	25	95	40	50	300	24	25	378	30	40	18	6.0
5	26	86	40	70	450	23	24	74	28	100	18	90
6	20	126	41	90	400	24	22	23	26	80	18	120
7	18	160	68	372	250	21	23	19	174	40	21	50
8	16	79	82	380	150	24	100	19	30	25	25	20
9	15	29	150	353	70	24	45	38	19	20	21	10
10	113	29	166	288	30	20	35	29	18	18	18	9.0
11	47	28	168	59	25	18	33	24	17	20	17	8.0
12	29	28	154	43	30	19	84	18	16	40	16	7.6
13	24	28	148	55	80	19	230	305	16	45	14	7.4
14	23	27	78	158	250	19	36	390	14	30	24	7.2
15	23	27	35	400	350	19	29	543	11	25	17	7.0
16	67	30	40	380	320	19	22	528	10	50	13	6.9
17	44	27	40	300	186	26	20	383	10	35	13	15
18	38	26	34	200	39	23	19	210	25	30	13	24
19	39	26	29	150	62	19	19	91	60	20	12	18
20	43	26	34	90	298	18	20	380	150	15	9.4	12
21	58	25	35	200	73	18	30	373	3,000	14	8.4	10
22	300	24	33	180	28	49	70	350	2,000	16	7.5	9.0
23	248	23	32	80	26	33	140	174	1,000	13	7.1	8.0
24	765	86	32	60	32	24	50	152	500	11	7.5	7.0
25	975	184	33	45	28	22	25	30	200	10	6.7	6.6
26	519	150	33	35	28	24	22	23	70	9.4	6.2	7.0
27	278	126	33	30	27	24	22	20	300	8.0	6.7	35
28	196	162	34	35	30	24	24	19	450	12	16	50
29	166	156	34	30	56	23	26	19	600	22	12	100
30	156	174	36	35	------	23	24	22	500	172	8.0	200
31	98	------	140	20	------	36	------	335	------	24	7.0	------
TOTAL	4,579	2,356	2,214	4,331	3,938	1,330	1,326	5,125	9,448	1,379.4	445.5	874.7
MEAN	148	78.5	71.4	140	136	42.9	44.2	165	315	44.5	14.4	29.2
MAX	975	184	168	400	450	363	230	543	3,000	300	25	200
MIN	15	23	29	20	20	18	19	18	10	8.0	6.2	6.0

CAL YR 1971 TOTAL 31,111.6 MEAN 85.2 MAX 1,010 MIN 7.4
WTR YR 1972 TOTAL 37,346.6 MEAN 102 MAX 3,000 MIN 6.0

NOTE.--No gage-height record Jan. 15 to Feb. 16, June 15 to July 20, Aug. 30 to Sept. 30.

02095500 North Buffalo Creek near Greensboro, N. C.

LOCATION.--Lat 36°07'13", long 79°42'30", Guilford County, on left bank 5 ft downstream from bridge on Secondary Road 2832, 4.2 miles upstream from mouth, and 5.8 miles northeast of post office in Greensboro.

DRAINAGE AREA.--37.0 sq mi.

PERIOD OF RECORD.--August 1928 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 678.02 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--44 years, 50.4 cfs (18.50 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,180 cfs June 21 (gage height, 13.92 ft); minimum, 16 cfs Sept. 24, 25 (gage height, 1.99 ft).
Period of record: Maximum discharge, 6,600 cfs June 16, 1969 (gage height, 16.63 ft), from rating curve extended above 2,900 cfs on basis of contracted-opening measurements at gage heights 14.15, 15.96, and 16.63 ft; minimum, 1.6 cfs Aug. 28, 1932.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diurnal fluctuation at low flow caused by mills above station. Diversion into basin from Greensboro and Proximity Mills enter above station.

REVISIONS (WATER YEARS).--WSP 1303: 1929, 1931-42, monthly and yearly runoff. WSP 1383: Drainage area, 1928(M), 1929, 1933-34(M), 1936(M), 1941(M), 1943(M), 1945(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237	35	50	34	34	43	68	32	140	39	92	30
2	290	36	40	40	229	45	43	33	43	31	235	32
3	38	70	60	35	612	42	35	83	35	31	36	24
4	30	37	60	80	169	37	45	87	31	28	98	24
5	45	34	45	60	68	34	41	40	31	69	207	199
6	55	31	40	37	57	36	38	38	33	35	33	43
7	31	29	250	33	55	37	38	30	34	33	45	36
8	29	30	150	30	45	70	232	83	32	31	52	31
9	30	31	90	31	43	40	50	71	31	26	33	31
10	366	37	60	137	40	38	45	36	29	29	35	25
11	57	33	55	138	41	36	46	34	24	52	33	27
12	38	32	55	67	53	34	170	32	28	65	32	32
13	33	31	53	182	356	39	63	31	30	46	27	27
14	32	29	50	130	78	36	49	639	29	33	27	28
15	32	34	48	64	54	36	43	113	29	34	31	27
16	255	35	60	45	47	60	37	59	30	68	30	26
17	48	31	56	42	58	75	36	44	31	59	29	34
18	36	31	54	42	67	41	37	49	261	37	29	41
19	34	31	54	43	93	34	36	335	47	34	35	30
20	40	32	100	41	50	34	36	140	300	32	72	29
21	55	29	70	82	45	35	46	64	2,660	32	27	27
22	70	26	50	45	45	162	139	49	194	28	29	27
23	851	28	46	40	59	45	53	58	67	23	28	25
24	247	309	42	40	60	39	41	41	46	25	30	21
25	285	130	40	39	48	49	38	38	38	27	29	24
26	104	120	38	37	52	48	37	36	37	27	33	26
27	59	160	35	36	41	44	38	33	36	26	35	58
28	50	130	34	40	40	39	36	30	148	26	52	65
29	42	150	32	36	40	44	33	32	168	84	29	176
30	40	100	50	34	------	38	28	119	74	62	31	177
31	36	------	40	33	------	142	------	216	------	49	28	------
TOTAL	3,595	1,871	1,927	1,773	2,679	1,532	1,677	2,725	4,716	1,221	1,562	1,402
MEAN	116	62.4	62.2	57.2	92.4	49.4	55.9	87.9	157	39.4	50.4	46.7
MAX	851	309	250	182	612	162	232	639	2,660	84	235	199
MIN	29	26	32	30	34	34	28	30	24	23	27	21

CAL YR 1971 TOTAL 23,081 MEAN 63.2 MAX 851 MIN 22
WTR YR 1972 TOTAL 26,680 MEAN 72.9 MAX 2,660 MIN 21

PEAK DISCHARGE (BASE, 920 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 2	0100	7.09	970	6-18	0700	6.98	951
10-23	0700	8.00	1,130	6-21	1230	13.92	4,180
11-24	2100	6.90	936	8- 2	0230	7.04	962
2- 3	1830	9.89	1,560	8- 5	0130	7.13	977
5-14	1300	10.46	1,730				

NOTE.--No gage-height record Nov. 24 to Jan. 5.

02096500 Haw River at Haw River, N. C.

LOCATION.--Lat 36°05'13", long 79°22'02", Alamance County, on left bank at town of Haw River, 650 ft downstream from Southern Railway bridge, 800 ft downstream from bridge on U. S. Highway 70 and State Highway 49, and 3 miles downstream from Stony Creek.

DRAINAGE AREA.--599 sq mi.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 471.69 ft above mean sea level.

AVERAGE DISCHARGE.--44 years, 555 cfs (12.58 inches per year).

EXTREMES.--Current year: Maximum discharge, 16,400 cfs June 22 (gage height, 22.75 ft, from high-water mark in well); minimum, 89 cfs Sept. 4 (gage height, 1.76 ft); minimum daily, 101 cfs Sept. 4.
Period of record: Maximum discharge, 37,000 cfs Sept. 18, 1945 (gage height, 31.10 ft, from floodmark); minimum, 3 cfs Sept. 5, 1930 (gage height, 0.92 ft); minimum daily, 5 cfs Sept. 6, 1930.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Large diurnal fluctuation and some regulation for short periods at low flow caused by powerplants above station. City of Burlington diverted from two reservoirs on Stony Creek (see p. 145) an average of 16.4 cfs for municipal water supply, about half of which was returned above station as sewage, the remainder was returned below station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 757: 1929(M). WSP 782: 1934. WSP 822: Drainage area. WSP 1383: 1930, 1932(M), 1933(m), 1936, 1943, 1944(M), 1947(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	319	350	695	469	279	625	877	250	1,100	433	394	162
2	1,750	470	553	311	667	740	625	236	511	314	877	110
3	936	720	517	311	2,330	472	511	457	334	259	920	108
4	559	880	424	314	4,320	391	436	1,190	273	403	469	101
5	587	440	451	403	2,140	370	400	758	253	293	1,380	343
6	490	540	448	427	1,910	337	370	436	222	337	481	541
7	220	620	670	590	1,610	316	349	355	337	296	325	276
8	110	440	1,270	845	810	331	1,530	302	245	256	270	192
9	160	310	765	810	541	397	896	472	197	220	343	147
10	2,150	299	691	908	439	334	618	451	181	206	174	127
11	1,500	299	635	968	391	316	538	370	174	194	158	116
12	430	267	571	932	385	305	775	308	164	262	144	114
13	220	264	505	751	2,770	299	1,340	388	164	436	125	120
14	150	253	484	1,090	1,800	305	768	1,720	164	328	138	114
15	160	253	367	1,110	1,100	302	635	3,130	162	228	149	110
16	380	242	358	1,100	932	314	526	2,280	158	206	129	105
17	820	250	487	996	782	481	442	1,700	142	273	140	1,090
18	400	228	499	1,000	553	454	376	1,390	355	234	144	382
19	310	234	409	1,020	649	388	340	1,340	571	322	133	214
20	330	217	409	523	800	343	322	1,870	394	184	138	160
21	300	228	538	421	639	311	314	1,240	5,300	164	167	140
22	490	225	463	514	463	747	391	920	14,600	162	118	129
23	1,030	184	388	430	433	859	670	789	9,700	144	120	120
24	4,300	581	355	394	502	538	484	656	3,390	140	167	116
25	3,800	2,630	340	367	487	475	409	466	1,460	129	125	112
26	2,800	1,170	328	415	466	439	352	400	852	129	108	127
27	1,700	1,040	322	779	487	427	311	325	730	147	103	250
28	1,200	1,170	314	828	451	412	287	282	719	197	138	649
29	880	877	311	457	445	388	276	267	723	290	194	2,220
30	620	831	314	314	------	388	262	256	681	649	147	1,360
31	560	------	358	302	------	475	------	908	------	406	127	------
TOTAL	29,661	16,512	15,239	20,099	29,581	13,279	16,430	25,912	44,256	8,241	8,545	9,855
MEAN	957	550	492	648	1,020	428	548	836	1,475	266	276	329
MAX	4,300	2,630	1,270	1,110	4,320	859	1,530	3,130	14,600	649	1,380	2,220
MIN	110	184	311	302	279	299	262	236	142	129	103	101
CFSM	1.60	.92	.82	1.08	1.70	.71	.91	1.40	2.46	.44	.46	.55
IN.	1.84	1.03	.95	1.25	1.84	.82	1.02	1.61	2.75	.51	.53	.61

CAL YR 1971 TOTAL 208,211 MEAN 570 MAX 6,140 MIN 104 CFSM .95 IN 12.93
WTR YR 1972 TOTAL 237,610 MEAN 649 MAX 14,600 MIN 101 CFSM 1.08 IN 14.76

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-22	Unknown	22.75	16,400				

NOTE.--No gage-height record Oct. 6 to Nov. 9; June 21-23.

02096700 Big Alamance Creek near Elon College, N. C.
(Formerly published as Alamance Creek near Elon College, N. C.)

LOCATION.--Lat 36°02'21", long 79°31'45", Alamance County, on right bank at downstream side of bridge on Secondary Road 1149, 1.2 miles upstream from Beaver Creek, and 4.5 miles south of Elon College.

DRAINAGE AREA.--116 sq mi.

PERIOD OF RECORD.--August 1957 to current year. Prior to October 1971 published as "Alamance Creek".

GAGE.--Water-stage recorder. Altitude of gage is 495 ft (by barometer). Aug. 21, 1957, to Nov. 14, 1957, nonrecording gage and Nov. 15, 1957, to Apr. 25, 1963, water-stage recorder at site 70 ft upstream at same datum.

AVERAGE DISCHARGE.--15 years, 103 cfs (12.06 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,510 cfs June 21 (gage height, 19.37 ft); minimum, 5.1 cfs Sept. 27 (gage height, 1.73 ft).
Period of record: Maximum discharge, 6,250 cfs Jan. 6, 1962 (gage height, 23.06 ft); minimum, 0.27 cfs Sept. 19, 20, 1968.
Flood in September 1945 reached a stage of 29.4 ft, from information by local resident (discharge not determined).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	80	72	54	38	81	187	44	80	92	143	9.6
2	513	78	57	60	232	78	126	42	58	71	808	9.3
3	87	140	55	58	832	87	103	143	52	54	113	9.3
4	42	68	59	70	858	77	91	240	46	46	108	9.3
5	61	54	70	110	244	73	87	110	43	58	398	33
6	99	48	99	80	170	69	81	67	41	56	76	70
7	52	46	278	48	147	66	80	59	37	45	54	21
8	35	43	286	42	112	70	196	57	32	38	90	14
9	38	43	125	40	93	74	123	110	29	34	57	11
10	1,440	46	90	72	82	69	87	80	29	30	40	9.6
11	381	46	75	170	75	64	77	60	28	28	32	8.5
12	129	42	62	142	73	65	155	50	25	35	29	8.0
13	78	41	57	166	696	64	212	48	23	44	25	7.5
14	53	39	55	214	280	63	125	1,000	22	34	24	7.0
15	39	38	55	103	174	61	98	500	20	28	24	6.3
16	289	38	55	73	142	61	83	200	18	23	21	5.9
17	169	37	55	61	126	104	74	100	18	44	20	5.9
18	71	36	53	61	131	76	69	90	63	32	19	7.0
19	56	35	47	60	185	69	65	500	36	27	18	7.0
20	78	35	56	59	151	62	63	400	168	22	32	6.3
21	91	35	98	70	123	59	63	150	3,220	18	18	5.9
22	93	32	64	74	119	178	93	120	739	16	16	5.7
23	1,080	30	54	61	104	123	203	150	237	15	14	5.7
24	700	213	53	58	123	78	93	130	153	14	13	5.5
25	400	506	52	54	112	71	70	126	113	12	12	7.5
26	250	131	50	47	108	73	63	90	86	12	12	6.8
27	200	200	48	43	107	82	60	71	69	11	11	9.6
28	150	191	62	44	92	74	55	66	80	11	15	78
29	120	106	60	44	86	71	52	64	160	26	17	69
30	100	111	70	43	------	75	48	63	219	206	12	416
31	90	------	60	42	------	136	------	110	------	78	11	------
TOTAL	7,120	2,588	2,432	2,323	5,815	2,453	2,982	5,040	5,944	1,260	2,282	875.2
MEAN	230	86.3	78.5	74.9	201	79.1	99.4	163	198	40.6	73.6	29.2
MAX	1,440	506	286	214	858	178	212	1,000	3,220	206	808	416
MIN	35	30	47	40	38	59	48	42	18	11	11	5.5
CFSM	1.98	.74	.68	.65	1.73	.68	.86	1.41	1.71	.35	.63	.25
IN.	2.28	.83	.78	.74	1.86	.79	.96	1.62	1.91	.40	.73	.28

CAL YR 1971 TOTAL 41,350.6 MEAN 113 MAX 1,570 MIN 7.5 CFSM .97 IN 13.26
WTR YR 1972 TOTAL 41,114.2 MEAN 112 MAX 3,220 MIN 5.5 CFSM .97 IN 13.18

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-10	0845	12.83	2,270	6-21	1615	19.37	4,510
2- 3	2015	12.77	2,250	8- 2	0200	12.82	2,270

02096850 Cane Creek near Teer, N. C.

LOCATION.--Lat 35°56'34", long 79°14'46", Orange County, on left bank at downstream side of bridge on State Highway 54, 1.5 miles southwest of Teer, 2.5 miles upstream from mouth, and 10 miles west of Carrboro.

DRAINAGE AREA.--31.3 sq mi.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 432.30 ft above mean sea level.

AVERAGE DISCHARGE.--13 years, 27.6 cfs (11.97 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,750 cfs Oct. 25 (gage height, 14.90 ft); minimum, 1.1 cfs Sept. 15-17, 27 (gage height, 3.86 ft).
Period of record: Maximum discharge, 3,640 cfs July 11, 1965 (gage height, 16.69 ft); minimum, 0.09 cfs Sept. 22, 23-26, 1968.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	25	3	25	19	24	43	13	7	14	16	1.7
2	99	23	25	45	297	24	29	13	45	11	12	1.8
3	76	37	24	28	364	27	24	182	3	9.7	8.4	1.6
4	16	32	25	23	198	24	22	47	2	8.0	6.6	1.5
5	12	22	29	21	71	22	24	38	16	8.8	10	3.5
6	20	20	36	19	54	21	21	25	13	9.2	8.7	6.0
7	16	18	41	17	46	20	20	21	17	8.4	6.6	3.4
8	10	16	50	15	36	20	50	26	14	7.5	6.0	2.3
9	8.7	15	33	15	31	20	32	57	10	6.9	5.4	1.9
10	312	17	27	25	29	19	25	26	9.1	6.5	4.8	1.6
11	77	15	24	63	27	15	22	23	8.5	6.2	4.3	1.4
12	32	15	23	55	25	14	32	20	5.2	10	4.1	1.3
13	21	15	21	118	275	18	35	29	4.0	11	4.1	1.2
14	17	14	20	81	81	16	27	120	7.8	7.9	4.4	1.2
15	14	14	18	44	51	17	23	200	7.3	6.5	4.1	1.1
16	21	14	17	31	43	17	21	150	6.7	5.7	3.6	1.1
17	19	13	17	29	38	22	19	110	6.5	5.3	3.4	1.2
18	14	13	20	27	36	19	17	80	8.0	5.1	3.4	2.6
19	14	12	23	26	56	17	16	74	7.5	4.9	3.5	2.1
20	27	13	25	25	44	15	16	100	11	4.6	3.2	1.6
21	26	12	32	36	36	16	16	76	382	4.2	3.3	1.3
22	24	11	28	34	34	39	22	58	96	3.9	3.0	1.4
23	223	10	25	36	30	29	45	46	30	3.5	2.6	1.3
24	317	105	23	30	36	21	25	36	22	3.5	2.3	1.3
25	963	187	22	27	32	19	22	28	17	4.3	2.1	1.2
26	170	49	21	23	31	20	19	22	15	4.3	2.0	1.2
27	68	93	20	22	30	20	17	17	13	3.7	1.9	1.1
28	47	67	19	22	27	20	16	16	13	6.3	2.5	1.3
29	35	46	17	21	26	18	15	15	18	66	2.5	5.0
30	30	42	16	21	------	18	14	14	20	45	2.2	91
31	27	------	19	20	------	30	------	60	------	23	1.9	------
TOTAL	2,793.7	987	770	1,014	2,118	650	729	1,786	949.6	325.8	148.9	146.2
MEAN	90.1	32.9	24.8	32.7	73.0	21.0	24.3	57.6	31.7	10.5	4.80	4.87
MAX	963	187	50	118	384	39	50	200	382	66	16	91
MIN	8.7	10	16	15	19	16	14	13	6.5	3.5	1.9	1.1
CFSM	2.88	1.05	.79	1.04	2.33	.67	.78	1.84	1.01	.34	.15	.16
IN.	3.32	1.17	.92	1.21	2.52	.77	.87	2.12	1.13	.39	.18	.17

CAL YR 1971 TOTAL 11,973.8 MEAN 32.8 MAX 963 MIN 1.7 CFSM 1.05 IN 14.23
WTR YR 1972 TOTAL 12,418.2 MEAN 33.9 MAX 963 MIN 1.1 CFSM 1.08 IN 14.76

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-25	0315	14.90	2,750	6-21	1730	10.19	1,020
2- 3	1930	10.34	1,060				

NOTE.--No gage-height record May 11 to June 13.

02097000 Haw River near Pittsboro, N. C.

LOCATION.--Lat 35°42'07", long 79°05'12", Chatham County, on left bank 100 ft upstream from Robeson Creek, 1,000 ft downstream from bridge on Secondary Road 1943, 2 miles downstream from bridge on U. S. Highway 64, and 5 miles east of Pittsboro.

DRAINAGE AREA.--1,310 sq mi, approximately.

PERIOD OF RECORD.--October 1928 to current year. October 1928 monthly discharge only, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 179.22 ft above mean sea level. Prior to Oct. 15, 1929, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 1,205 cfs (12.49 inches per year).

EXTREMES.--Current year: Maximum discharge, 26,200 cfs June 22 (gage height, 17.05 ft); minimum, 33 cfs Sept. 17 (gage height, 1.61 ft); minimum daily, 115 cfs Sept. 16.
Period of record: Maximum discharge, 79,000 cfs Sept. 18, 1945 (gage height, 28.58 ft, from floodmark in gage shelter); minimum, 3.1 cfs Sept. 13, 1954; minimum daily, 5.3 cfs Sept. 20, 1953.
Flood in August 1908 reached a stage of 32.1 ft, from floodmarks 1,000 ft upstream (discharge, 98,000 cfs). Flood in 1865 reached a stage about 1 ft lower than flood of 1908, from information by local residents. Flood in September 1928 reached a stage of 20.3 ft from floodmarks (discharge, 39,200 cfs).

REMARKS.--Records good. Considerable diurnal fluctuation and some regulation for short periods at low flow caused by powerplants above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1383: 1929(M), 1931, 1933-34, 1936(m), 1937, 1941-44(m), 1946-47(m), 1948. WSP 1703: 1957.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	751	1,100	1,640	767	627	948	1,780	544	1,660	1,100	1,010	260
2	5,140	1,200	1,280	774	3,510	1,200	1,630	514	1,310	800	1,680	168
3	3,100	1,500	1,130	634	5,460	1,160	1,200	1,170	753	600	2,030	224
4	1,400	2,000	1,080	613	11,300	886	1,000	3,370	578	500	948	192
5	982	2,500	1,060	690	4,710	809	932	2,130	520	700	1,030	440
6	3,000	1,200	1,310	872	3,030	781	858	1,160	478	600	3,030	938
7	1,650	1,500	1,290	788	2,750	718	774	844	442	506	938	994
8	826	900	2,920	1,030	2,020	697	1,380	718	514	450	970	526
9	532	750	2,130	1,140	1,340	734	2,460	908	454	400	994	356
10	5,540	688	1,560	1,470	1,100	781	1,360	1,170	340	350	682	290
11	7,670	679	1,400	2,650	956	676	1,110	823	288	450	477	332
12	2,400	663	1,260	2,390	900	648	1,090	676	394	700	338	228
13	1,280	600	1,200	2,230	6,130	655	2,460	578	316	1,000	350	212
14	920	596	1,120	2,920	5,460	648	1,900	865	260	600	464	192
15	715	586	1,010	2,120	2,570	648	1,360	5,530	272	420	362	216
16	705	566	858	1,860	1,980	641	1,140	8,420	358	450	350	115
17	2,120	549	834	1,580	1,700	802	964	4,100	283	600	308	176
18	1,360	546	1,010	1,500	1,460	1,070	823	2,590	196	900	326	1,020
19	940	520	874	1,510	1,700	837	718	2,320	697	490	228	810
20	869	504	834	1,390	1,940	732	662	3,280	746	655	285	470
21	868	493	1,310	1,000	1,660	655	676	2,720	7,170	406	356	338
22	925	512	1,320	1,200	1,290	844	711	2,030	23,300	328	326	270
23	3,700	475	964	1,120	1,140	1,900	1,720	2,260	13,600	283	270	141
24	10,000	481	802	988	1,120	1,200	1,510	1,770	5,180	255	232	208
25	20,400	5,920	746	872	1,250	948	1,080	1,740	2,660	242	260	290
26	12,000	3,530	718	781	1,140	865	886	1,200	1,560	246	200	192
27	5,000	2,070	683	830	1,170	893	739	900	1,110	228	216	192
28	2,500	3,110	676	1,220	1,090	879	648	732	1,000	233	302	216
29	1,500	2,110	648	1,140	988	816	592	669	1,500	358	260	582
30	1,300	1,850	627	739	------	781	564	641	2,000	1,210	350	3,340
31	1,100	------	697	662	------	865	------	718	------	1,500	332	------
TOTAL	101,203	39,698	34,991	39,480	71,491	26,722	34,727	57,090	69,939	17,554	19,904	13,928
MEAN	3,265	1,323	1,129	1,274	2,465	862	1,158	1,842	2,331	566	642	464
MAX	20,400	5,920	2,920	2,920	11,300	1,900	2,460	8,420	23,300	1,500	3,030	3,340
MIN	532	475	627	613	627	641	564	514	196	228	200	115
CFSM	2.49	1.01	.86	.97	1.88	.66	.88	1.41	1.78	.43	.49	.35
IN.	2.87	1.13	.99	1.12	2.03	.76	.99	1.62	1.99	.50	.57	.40

CAL YR 1971 TOTAL 523,749 MEAN 1,435 MAX 20,400 MIN 106 CFSM 1.10 IN 14.87
WTR YR 1972 TOTAL 526,727 MEAN 1,439 MAX 23,300 MIN 115 CFSM 1.10 IN 14.96

PEAK DISCHARGE (BASE, 17,000CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-25	0600	16.64	24,800	6-22	1400	17.05	26,200

02097243 Third Fork Creek at Durham, N. C.

LOCATION.--Lat 35°58'43", long 78°54'48", Durham County, on right bank 60 ft downstream from bridge on Forest Hills Boulevard, at Durham, 7 miles upstream from mouth.

DRAINAGE AREA.--1.67 sq mi.

PERIOD OF RECORD.--November 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 292.78 ft above mean sea level (levels by city of Durham).

EXTREMES.--Current year: Maximum discharge, 1,760 cfs June 28 (gage height, 5.41 ft) from rating curve extended as explained below; minimum daily, 0.20 cfs Jan. 31.
Period of record: Maximum discharge, 1,760 cfs June 28, 1972 (gage height, 5.41 ft) from rating curve extended above 280 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.07 cfs Oct. 7, 28, 1969, Nov. 9, 1970.

REMARKS.--Records good above 0.5 cfs and fair below. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	.54	1.0	.46	9.8	.63	1.2	.46	.58	.63	1.4	.46
2	5.5	.54	.90	.46	29	.58	.79	.46	.54	.54	.70	.28
3	1.2	6.6	.84	.49	35	.84	.54	23	.54	.54	1.1	.25
4	.84	2.2	2.2	2.5	2.7	.54	5.7	1.2	.49	.49	.50	.62
5	.73	.84	2.4	1.0	1.3	.54	.90	.58	.46	1.7	7.0	27
6	31	.68	1.5	.58	1.2	.49	.63	.49	.49	.49	1.0	.49
7	1.0	.68	3.9	.49	1.0	.49	1.2	.49	.49	.54	.80	.38
8	.68	.54	.73	.46	.79	.73	8.5	13	.42	1.8	.60	.38
9	17	.85	.63	2.2	.73	.38	.79	2.6	.49	.63	.42	.35
10	31	1.1	.58	10	.68	.38	.68	.49	.49	.58	.38	.31
11	2.0	.68	.58	6.1	.68	.42	.68	.38	.42	1.2	.38	.35
12	.90	.58	1.8	1.6	11	.38	5.7	.38	.42	5.5	.46	.31
13	.73	.49	.68	8.2	13	.42	.68	.35	.46	.68	.31	.35
14	.63	.49	.63	1.5	1.2	.49	.63	13	.42	.54	.38	.35
15	.58	.46	.63	.90	1.1	.38	.54	45	.38	.73	.38	.35
16	1.6	.49	.61	.63	.84	3.3	.54	12	.42	.46	.35	.31
17	.49	.46	1.4	.73	.98	9.5	.42	3.6	.38	6.6	3.0	33
18	.42	.46	.63	.90	3.7	2.7	.54	1.1	.31	.42	5.5	.98
19	5.2	.49	.68	.84	7.6	1.4	.52	1.0	.31	.35	2.5	.63
20	1.5	.54	6.6	.73	.84	.73	.42	1.0	22	.35	.49	.35
21	1.9	.49	1.5	4.3	.73	.73	.70	1.0	93	.31	.35	4.5
22	2.3	.42	.78	.84	.84	5.7	9.2	24	1.8	.25	.28	.49
23	33	.38	.68	.63	2.2	.49	.98	3.0	.90	.23	.35	.38
24	8.8	18	.73	.98	1.0	.38	9.2	20	.63	.31	.35	.35
25	7.5	1.4	.63	.31	.98	.68	1.2	1.6	.46	.35	.35	.38
26	2.0	.68	.49	.28	2.1	.54	.62	1.1	.58	.31	.42	.38
27	1.1	12	.58	.25	.84	.49	.56	.79	.63	6.9	.28	.58
28	.78	1.7	.63	.25	.73	.42	.50	.73	59	.68	.42	.54
29	.78	2.1	.49	.23	.68	.46	.47	.73	3.9	72	.31	23
30	.63	1.4	1.2	.28	------	.38	.46	2.2	.98	11	.31	47
31	.63	------	.58	.20	------	6.4	------	.84	------	30	.31	------
TOTAL	231.42	58.28	37.21	49.32	133.24	41.99	55.49	176.57	192.39	147.11	31.38	145.10
MEAN	7.47	1.94	1.20	1.59	4.59	1.35	1.85	5.70	6.41	4.75	1.01	4.84
MAX	69	18	6.6	10	35	9.5	9.2	45	93	72	7.0	47
MIN	.42	.38	.49	.20	.68	.38	.42	.35	.31	.23	.28	.25
CFSM	4.47	1.16	.72	.95	2.75	.81	1.11	3.41	3.84	2.84	.60	2.90
IN.	5.15	1.30	.83	1.10	2.97	.94	1.24	3.93	4.29	3.28	.70	3.23

CAL YR 1971 TOTAL 1,436.74 MEAN 3.94 MAX 256 MIN .15 CFSM 2.36 IN 32.00
WTR YR 1972 TOTAL 1,299.50 MEAN 3.55 MAX 93 MIN .20 CFSM 2.13 IN 28.95

PEAK DISCHARGE (BASE, 480 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 1	1450	4.34	529	6-28	1640	5.41	1,760
10- 6	0015	4.35	535	7-29	1645	5.16	1,320
10- 9	2220	4.56	683	9-17	1950	4.61	724
5-15	2315	4.65	758	9-30	0830	4.62	732
6-21	1230	4.81	900				

02098000 New Hope River near Pittsboro, N. C.

LOCATION.--Lat 35°44'12", long 79°01'36", Chatham County, on right bank at downstream side of bridge on U. S. Highway 64, 0.2 mile downstream from Whiteoak Creek, and 8.8 miles east of Pittsboro.

DRAINAGE AREA.--285 sq mi.

PERIOD OF RECORD.--January 1949 to current year.

GAGE.--Water-stage recorder and concrete control since 1953. Datum of gage is 175.75 ft above mean sea level. Prior to Mar. 18, 1950, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 270 cfs (12.87 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,680 cfs Oct. 27 (gage height, 17.94 ft); minimum, 20 cfs Sept. 17 (gage height, 3.59 ft).
Period of record: Maximum discharge, 7,900 cfs Mar. 5, 1952 (gage height, 19.74 ft); minimum, 2.0 cfs Sept. 4, 1953.
Flood in September 1945 reached a stage of 27.65 ft; 1929 flood, 25.3 ft; 1908 flood, 23.85 ft; from information by North Carolina State Highway Commission.

REMARKS.--Records good. City of Durham discharged an average of about 10.2 cfs sewage effluent into basin above station, diverted from Neuse River during the year. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	189	257	392	154	121	145	263	139	194	339	698	25
2	1,170	200	270	125	667	118	343	120	140	135	832	24
3	1,190	193	187	98	1,220	105	279	239	103	64	778	24
4	1,270	264	174	83	1,780	95	186	1,200	84	47	269	24
5	1,290	291	239	86	2,610	86	132	1,050	74	132	591	285
6	1,160	250	274	107	2,760	76	123	1,060	68	82	1,060	492
7	1,050	174	257	112	2,100	68	114	830	62	56	352	194
8	803	126	264	91	1,200	63	158	404	59	41	148	64
9	759	105	219	75	482	61	309	291	56	34	114	38
10	613	93	170	120	237	57	295	426	52	29	91	28
11	1,010	88	170	621	163	52	215	591	48	26	53	23
12	1,170	89	190	773	157	46	164	404	46	30	40	32
13	1,610	83	200	833	609	44	285	182	44	56	35	32
14	1,450	76	190	959	905	45	356	143	42	76	100	25
15	725	69	170	885	1,010	44	279	462	35	48	166	23
16	276	66	150	793	1,160	40	175	736	33	34	62	22
17	206	64	130	505	975	80	119	977	32	38	40	24
18	169	60	140	288	466	204	88	2,130	31	59	35	46
19	131	56	120	217	500	189	71	2,560	44	115	40	77
20	106	55	250	202	665	96	63	1,740	70	79	53	75
21	123	54	450	226	649	63	60	718	218	42	74	55
22	156	52	440	361	525	190	66	350	673	33	56	52
23	409	53	400	388	325	406	119	694	995	28	36	74
24	1,150	53	280	322	252	277	259	875	1,470	29	30	54
25	1,690	196	185	257	254	138	273	1,040	1,310	27	28	39
26	3,630	396	145	209	261	94	259	997	426	31	27	32
27	4,320	485	126	175	277	107	194	881	103	31	26	31
28	3,000	649	110	160	243	103	148	631	85	23	25	32
29	1,830	631	100	149	189	86	215	275	299	23	26	56
30	865	541	91	142	------	77	172	167	394	160	26	742
31	377	------	109	135	------	90	------	170	------	325	27	------
TOTAL	33,897	5,769	6,592	9,651	22,762	3,345	5,782	22,482	7,290	2,272	5,938	2,744
MEAN	1,093	192	213	311	785	108	193	725	243	73.3	192	91.5
MAX	4,320	649	450	959	2,760	406	356	2,560	1,470	339	1,060	742
MIN	106	52	91	75	121	40	60	120	31	23	25	22

CAL YR 1971 TOTAL 137,141 MEAN 376 MAX 4,320 MIN 23
WTR YR 1972 TOTAL 128,524 MEAN 351 MAX 4,320 MIN 22

PEAK DISCHARGE (BASE, 1,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-27	0130	17.94	4,680	5-19	0130	15.04	2,760
2- 6	0200	15.28	2,880				

02098200 Haw River near Haywood, N. C.

LOCATION.--Lat 35°38'50", long 79°03'54", Chatham County, on right bank 1.3 miles upstream from bridge on U. S. Highway 1, 2.1 miles north of Haywood, and 3.9 miles upstream from mouth.

DRAINAGE AREA.--1,700 sq mi, approximately.

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 155.00 ft above mean sea level (Corps of Engineers bench mark). Since June 22, 1966, auxiliary water-stage recorder 2.6 miles downstream.

AVERAGE DISCHARGE.--7 years, 1,228 cfs (9.81 inches per year).

EXTREMES.--Current year: Maximum discharge, 25,800 cfs Oct. 25 (gage height, 22.41 ft); minimum daily discharge, 214 cfs Aug. 19.
Period of record: Maximum discharge, 25,800 cfs Oct. 25, 1971 (gage height, 22.41 ft); minimum daily discharge, 35 cfs Sept. 12, 1966.

REMARKS.--Records good except those for period of no gage-height record or below 350 cfs, which are fair. Some regulation for short periods at low flow caused by powerplants above station. Water quality records collected 1.3 miles downstream from station for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,140	1,450	2,130	950	802	1,150	1,990	720	1,810	1,610	1,620	370
2	7,070	1,500	1,540	1,020	4,120	1,400	2,040	660	1,650	954	2,170	280
3	5,280	1,800	1,260	810	6,650	1,350	1,500	1,010	997	702	2,550	280
4	2,790	2,400	1,280	756	14,800	1,100	1,210	4,450	765	576	1,330	266
5	2,110	2,800	1,200	810	8,000	920	1,080	3,380	713	1,020	2,830	540
6	5,090	1,600	1,510	927	6,070	880	971	2,080	599	790	3,070	1,130
7	4,320	1,700	1,640	965	4,830	820	880	1,550	574	672	1,290	1,150
8	2,060	1,650	3,020	1,050	3,540	780	1,330	1,090	681	559	1,100	691
9	1,380	1,000	2,630	1,200	2,060	820	2,880	1,120	644	517	1,060	590
10	5,100	780	1,800	1,540	1,660	860	1,660	1,540	521	473	739	530
11	11,000	754	1,610	3,300	1,300	750	1,320	1,300	496	408	466	510
12	4,960	744	1,450	3,400	1,210	720	1,200	1,100	513	454	384	415
13	2,930	681	1,400	3,200	7,000	740	2,620	871	513	564	303	390
14	2,370	672	1,300	4,000	6,400	700	2,400	1,050	481	817	463	340
15	1,530	662	1,250	3,600	4,000	720	1,650	5,350	437	614	446	317
16	1,150	690	1,100	2,850	3,170	740	1,320	9,290	470	466	382	353
17	2,470	616	1,020	2,200	2,720	900	1,080	5,500	350	482	315	243
18	1,780	630	1,160	1,900	2,070	1,300	899	3,860	290	710	306	770
19	1,250	611	1,180	1,700	2,330	1,100	800	3,810	780	681	214	840
20	1,070	592	1,060	1,600	2,750	900	714	4,960	900	752	283	570
21	948	558	1,760	1,300	2,420	760	714	4,190	10,000	511	361	413
22	1,020	543	1,900	1,600	1,910	1,100	772	2,380	24,600	389	351	343
23	3,370	511	1,690	1,500	1,500	2,490	1,730	3,130	21,000	300	269	300
24	11,100	521	1,260	1,350	1,450	1,750	1,780	2,560	6,600	274	263	250
25	20,900	5,500	1,080	1,200	1,500	1,120	1,320	2,810	7,200	265	309	299
26	10,300	4,350	994	1,050	1,450	980	1,180	2,290	1,940	292	309	269
27	7,520	2,550	959	1,000	1,500	1,040	907	1,910	1,360	265	269	280
28	5,670	3,740	820	1,420	1,400	1,020	892	1,530	1,190	230	299	280
29	3,880	2,800	780	1,370	1,350	1,060	820	1,180	1,610	403	310	508
30	2,460	2,410	740	1,090	------	853	760	1,160	2,020	1,180	383	2,110
31	1,660	------	820	889	------	923	------	1,100	------	1,740	407	------
TOTAL	135,678	46,815	43,343	51,547	99,962	31,746	40,419	78,931	91,704	19,670	24,851	15,627
MEAN	4,377	1,561	1,398	1,663	3,447	1,024	1,347	2,546	3,057	635	802	521
MAX	20,900	5,500	3,020	4,000	14,800	2,490	2,880	9,290	24,600	1,740	3,070	2,110
MIN	948	511	740	756	802	700	714	660	290	230	214	243
CFSM	2.57	.92	.82	.98	2.03	.60	.79	1.50	1.80	.37	.47	.31
IN.	2.97	1.02	.95	1.13	2.19	.69	.88	1.73	2.01	.43	.54	.34

CAL YR 1971 TOTAL 684,014 MEAN 1,874 MAX 20,900 MIN 175 CFSM 1.10 IN 14.97
WTR YR 1972 TOTAL 680,293 MEAN 1,859 MAX 24,600 MIN 214 CFSM 1.09 IN 14.89

PEAK DISCHARGE (BASE, 20,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-25	1200	22.41	25,800	6-22	1800	21.84	24,700

NOTE.--No gage height record Feb. 22 to Mar. 22.

02099000 East Fork Deep River near High Point, N. C.

LOCATION.--Lat 36°02'15", long 79°56'46", Guilford County, on left bank 5 ft upstream from bridge on Secondary Road 1541, 3.3 miles upstream from High Point Dam, and 5.2 miles northeast of High Point College, High Point.

DRAINAGE AREA.--14.7 sq mi.

PERIOD OF RECORD.--July 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 764.02 ft above mean sea level. Intake pipe extended to downstream side of bridge since Mar. 1, 1934.

AVERAGE DISCHARGE.--44 years, 15.0 cfs (13.85 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,680 cfs June 21 (gage height, 5.89 ft); minimum, 2.8 cfs Sept. 27 (gage height, 0.30 ft).
Period of record: Maximum discharge, 6,300 cfs Sept. 24, 1947 (gage height, 10.87 ft, from floodmark), from rating curve extended above 1,600 cfs on basis of contracted-opening measurement of peak flow; minimum, 0.7 cfs Sept. 22, 1941 (result of temporary regulation); minimum unregulated, 1.1 cfs Oct. 7, 1954, Sept. 26, 1968.

REMARKS.--Records good. Occasional temporary regulation of unknown origin during low flow in some water years. Slight diurnal fluctuation at low flow during growing season. Since Apr. 19, 1968 recording rain gage located at station.

REVISIONS (WATER YEARS).--WSP 1383: Drainage area, 1941. WSP 1723: 1929(M),

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	7.6	10	8.4	8.6	9.9	24	8.4	14	8.7	8.5	3.6
2	21	7.6	9.1	9.2	47	11	17	8.2	8.5	7.4	8.5	3.6
3	7.7	13	9.1	8.2	232	10	14	16	7.5	6.8	5.9	3.3
4	6.4	8.6	9.9	14	55	9.4	13	18	7.0	6.7	5.2	3.3
5	6.0	7.6	12	18	23	9.2	11	9.8	6.7	17	6.6	14
6	6.3	7.3	13	12	18	8.6	10	8.6	6.5	8.5	4.8	6.3
7	4.9	7.1	38	9.8	17	8.6	10	8.0	6.5	7.4	5.5	4.6
8	4.5	6.8	22	8.8	13	13	31	17	6.1	6.8	5.4	4.2
9	4.7	7.1	15	9.6	11	9.7	13	17	6.1	6.3	4.9	4.0
10	18	7.3	12	31	11	9.0	11	9.3	6.4	6.0	4.6	3.7
11	7.6	6.8	11	44	10	8.6	11	8.2	5.8	6.6	4.5	3.7
12	6.4	6.5	9.8	22	15	8.6	48	7.6	5.7	7.9	4.4	3.7
13	5.9	6.8	9.9	97	86	8.5	22	7.5	5.7	7.0	4.3	3.6
14	5.6	6.4	9.7	66	24	8.8	16	264	5.6	6.1	4.3	3.4
15	5.5	6.3	9.7	24	16	8.3	13	36	5.4	5.8	4.2	3.4
16	44	6.5	11	16	13	12	12	20	5.2	6.4	4.1	3.5
17	12	6.3	12	13	16	14	11	14	5.2	6.3	4.2	3.9
18	8.2	6.3	9.1	12	17	10	9.9	11	6.0	5.6	4.1	4.5
19	7.1	6.2	8.2	12	21	9.1	9.5	79	5.3	5.5	3.9	3.8
20	7.0	6.3	16	11	14	8.5	9.9	53	36	5.2	3.9	3.4
21	8.2	6.1	14	21	13	8.9	11	20	946	4.9	3.8	3.5
22	37	5.9	11	16	12	34	36	15	52	4.8	3.8	3.5
23	133	5.8	9.1	14	13	14	20	14	20	4.8	3.7	3.4
24	51	40	9.0	12	15	11	14	11	14	4.6	3.8	3.5
25	35	28	8.8	10	13	11	11	9.8	11	4.6	4.0	3.2
26	17	14	8.6	11	14	12	10	8.5	8.8	4.5	3.9	3.2
27	12	24	8.3	10	12	13	9.7	7.9	7.7	4.4	3.9	4.0
28	10	16	7.9	9.8	11	11	9.2	7.8	24	4.5	4.6	5.7
29	9.0	15	7.8	9.3	10	11	8.9	7.7	21	6.1	3.7	9.1
30	8.3	14	9.5	9.3	------	10	8.6	9.9	13	6.9	3.5	22
31	8.3	------	9.6	8.9	------	39	------	17	------	11	3.4	------
TOTAL	540.6	313.2	360.1	577.3	780.6	369.7	454.7	749.2	1,278.7	205.1	143.9	148.6
MEAN	17.4	10.4	11.6	18.6	26.9	11.9	15.2	24.2	42.6	6.62	4.64	4.95
MAX	133	40	38	97	232	39	48	264	946	17	8.5	22
MIN	4.5	5.8	7.8	8.2	8.6	8.3	8.6	7.5	5.2	4.4	3.4	3.2
CFSM	1.18	.71	.79	1.27	1.83	.81	1.03	1.65	2.90	.45	.32	.34
IN.	1.37	.79	.91	1.46	1.98	.94	1.15	1.90	3.24	.52	.36	.38

CAL YR 1971 TOTAL 5,535.6 MEAN 15.2 MAX 280 MIN 3.7 CFSM 1.03 IN 14.01
WTR YR 1972 TOTAL 5,921.7 MEAN 16.2 MAX 946 MIN 3.2 CFSM 1.10 IN 14.99

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 3	1500	3.25	1,040	6-21	1415	5.89	2,680
5-14	0930	3.38	1,170				

02099500 Deep River near Randleman, N. C.

LOCATION.--Lat 35°54'06", long 79°51'05", Randolph County, on left bank 500 ft downstream from bridge on Secondary Road 1929, 0.2 mile downstream from Coltrane's mill, 0.5 mile south of Guilford County line, 4.8 miles upstream from Muddy Creek, and 7 miles north of Randleman.

DRAINAGE AREA.--124 sq mi.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 638.11 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--44 years, 118 cfs (12.92 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,980 cfs June 21 (gage height, 20.90 ft); minimum, 13 cfs Sept. 3, 4 (gage height, 1.86 ft); minimum daily, 14 cfs Aug. 21, Sept. 3, 4.
Period of record: Maximum discharge, 20,000 cfs Sept. 25, 1947 (gage height, 32.2 ft, from floodmark) from rating curve extended above 7,100 cfs on basis of contracted-opening measurement of peak flow at bridge 1.5 miles upstream; minimum, 0.5 cfs Nov. 28, 1931 (gage height, 1.41 ft); minimum daily, 1.2 cfs Nov. 12, 1933.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Some regulation by High Point Municipal Lake (see p. 145) and New Metro Lake. City of High Point diverted an average of 15.1 cfs for municipal water supply during water year; 9.6 cfs was discharged as sewage effluent into Richland Creek above station and 5.1 cfs into Rich Fork Creek in Pee Dee River basin.

REVISIONS (WATER YEARS).--WSP 782: 1929-30. WSP 1383: 1934-35, 1941. WSP 1723: 1929(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	44	80	65	60	73	244	49	181	81	40	17
2	191	44	70	65	421	75	160	49	78	56	74	16
3	38	56	60	70	1,240	75	115	90	56	45	30	14
4	27	50	64	87	980	66	96	137	47	39	28	14
5	26	37	70	166	311	63	84	82	44	51	26	94
6	84	34	80	119	202	64	72	55	41	54	23	39
7	32	32	250	86	172	54	71	46	37	43	61	21
8	24	29	180	74	128	77	204	57	32	37	125	19
9	23	31	140	66	105	79	110	154	33	32	42	18
10	384	32	114	257	89	61	85	84	41	30	34	16
11	111	30	96	408	85	51	79	52	26	30	26	15
12	55	30	79	308	90	50	402	43	24	40	23	18
13	38	30	73	528	622	53	295	39	27	41	19	19
14	33	30	70	520	297	56	179	1,320	26	34	17	18
15	29	30	66	276	186	52	130	686	25	29	20	18
16	322	28	62	162	143	55	103	773	24	57	20	16
17	124	28	64	110	127	111	94	240	23	44	19	26
18	62	28	61	98	120	83	70	165	29	32	18	64
19	48	28	51	96	160	61	62	597	22	28	17	22
20	60	28	103	89	120	54	62	621	74	25	15	19
21	57	28	131	150	110	54	73	277	3,710	23	14	18
22	72	28	85	136	95	263	194	189	2,140	21	18	18
23	970	28	66	111	95	150	231	169	267	19	18	17
24	669	300	61	96	108	95	132	113	111	19	18	16
25	389	170	57	91	104	75	96	90	91	22	17	16
26	165	90	54	75	111	91	78	73	72	21	16	19
27	99	130	54	66	101	98	64	58	58	21	15	20
28	75	200	55	66	85	90	57	51	76	22	15	56
29	62	120	55	65	80	88	52	49	168	29	18	52
30	55	90	60	64	------	89	49	66	189	56	17	115
31	47	------	80	63	------	209	------	243	------	44	16	------
TOTAL	4,419	1,863	2,591	4,633	6,547	2,615	3,743	6,717	7,772	1,125	859	850
MEAN	143	62.1	83.6	149	226	84.4	125	217	259	36.3	27.7	28.3
MAX	970	300	250	528	1,240	263	402	1,320	3,710	81	125	115
MIN	23	28	51	63	60	50	49	39	22	19	14	14

CAL YR 1971 TOTAL 41,307 MEAN 113 MAX 1,490 MIN 14
WTR YR 1972 TOTAL 43,734 MEAN 119 MAX 3,710 MIN 14

PEAK DISCHARGE (BASE, 2,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 3	1930	13.83	2,910	6-21	2100	20.90	5,980
5-14	1430	13.34	2,760				

NOTE.--No gage-height record Nov. 10 to Dec. 9.

02100500 Deep River at Ramseur, N. C.

LOCATION.--Lat 35°43'40", long 79°39'10", Randolph County, on right bank 0.2 mile downstream from Main Street bridge in Ramseur, 0.5 mile downstream from mill dam, and 1.5 miles downstream from Sandy Creek.

DRAINAGE AREA.--346 sq mi.

PERIOD OF RECORD.--November 1922 to current year.

GAGE.--Water-stage recorder. Datum of gage is 419.50 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--49 years, (1923-72) 339 cfs (13.31 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,100 cfs June 21 (gage height, 16.95 ft); minimum, 34 cfs Sept. 16, 17, 24, 25, 26, 27, 28 (gage height, 0.76 ft).
Period of record: Maximum discharge, 43,000 cfs Sept. 18, 1945 (gage height, 34.04 ft, from floodmark), from rating curve extended above 18,000 cfs on basis of slope-area measurement of peak flow; minimum, 0.4 cfs May 27, Nov. 28, 29, 1941; minimum daily, 0.7 cfs Nov. 29, 1941.
Flood in August 1901 reached a stage of 28.75 ft, from floodmarks, 0.2 mile upstream (discharge, 30,000 cfs).

REMARKS.--Records good. Large diurnal fluctuation caused by powerplants above station prior to Jan. 1, 1963, only slight fluctuation afterwards. Flow slightly regulated by High Point Municipal Lake (see p. 145) and small powerplant reservoirs. Town of Asheboro diverted an average of 3.3 cfs for water supply from Pee Dee River basin and discharged sewage into Deep River above station.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1032: 1923-24, 1925(M), 1926, 1927-28(M), 1929, 1930(M), 1932-33, 1934(M), 1935, 1936-37(M), 1944(M). WSP 1383: 1923(m), 1925, 1927, 1930, 1936.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	182	280	186	185	245	751	163	404	330	141	40
2	896	173	223	177	1,410	236	465	158	266	194	115	39
3	260	251	206	177	2,860	250	350	764	194	146	116	38
4	122	262	219	350	3,560	230	309	761	163	125	81	35
5	89	175	302	401	950	205	389	396	146	154	73	95
6	170	148	516	302	577	196	272	251	137	220	70	288
7	138	140	720	250	486	187	245	196	131	153	71	90
8	86	128	995	212	402	190	569	193	118	128	461	55
9	78	121	447	190	330	245	413	585	109	108	151	46
10	1,990	124	338	734	292	203	292	326	124	98	93	42
11	774	126	287	1,270	267	178	261	219	119	90	74	39
12	273	123	246	976	270	166	1,430	174	100	91	62	36
13	166	121	230	1,140	1,950	168	1,160	155	92	156	55	35
14	125	116	208	1,270	1,010	172	575	1,950	92	165	63	36
15	105	111	197	678	554	170	419	2,200	90	112	55	35
16	895	109	192	435	444	175	344	2,520	86	93	49	35
17	578	111	208	310	340	317	295	911	83	82	47	34
18	253	109	174	293	414	274	249	519	88	177	47	46
19	171	108	169	279	659	207	215	2,560	96	116	51	79
20	169	111	480	270	516	175	203	2,520	130	92	48	48
21	198	113	396	381	391	169	222	993	5,100	80	42	39
22	223	102	258	423	347	594	628	741	7,300	79	40	36
23	2,130	98	211	331	316	485	1,080	975	1,150	73	38	35
24	2,480	464	196	290	340	303	469	540	432	61	38	35
25	1,510	1,530	181	262	338	245	354	420	295	60	38	35
26	693	458	171	238	329	260	278	323	239	61	38	34
27	403	501	165	216	343	338	233	259	194	61	38	34
28	311	596	160	202	283	290	207	231	165	69	61	60
29	249	360	154	201	265	257	190	210	428	79	63	200
30	218	402	262	194	------	283	174	213	356	256	44	712
31	199	------	241	192	------	514	------	497	------	164	40	------
TOTAL	16,070	7,473	9,026	12,830	20,468	7,927	13,041	22,923	18,427	3,873	2,403	2,411
MEAN	518	249	291	414	706	256	435	739	614	125	77.5	80.4
MAX	2,480	1,530	995	1,270	3,560	594	1,430	2,560	7,300	330	461	712
MIN	78	98	154	177	185	166	174	155	83	60	38	34
CFSM	1.50	.72	.84	1.20	2.04	.74	1.26	2.14	1.77	.36	.22	.23
IN.	1.73	.80	.97	1.38	2.20	.85	1.40	2.46	1.98	.42	.26	.26

CAL YR 1971 TOTAL 131,036 MEAN 359 MAX 5,400 MIN 44 CFSM 1.04 IN 14.09
WTR YR 1972 TOTAL 136,872 MEAN 374 MAX 7,300 MIN 34 CFSM 1.08 IN 14.72

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 3	2030	11.52	6,620	6-21	2100	16.95	11,100

02101800 Tick Creek near Mount Vernon Springs, N. C.

LOCATION.--Lat 35°39'37", long 79°20'08", Chatham County, on right bank 200 ft upstream from bridge on U. S. Highway 421, 1.5 miles east of Mount Vernon Springs, and 4 miles upstream from mouth.

DRAINAGE AREA.--15.3 sq mi.

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Altitude of gage is 455 ft (by barometer).

AVERAGE DISCHARGE.--14 years, 14.3 cfs (12.69 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,770 cfs Oct. 25 (gage height, 7.71 ft from high-water mark in well); minimum, 0.20 cfs Sept. 17 (gage height, 1.89 ft).
Period of record: Maximum discharge, 2,920 cfs Aug. 30, 1964 (gage height, 9.21 ft); no flow at times in most years.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	14	9.5	10	9.2	8.6	25	4.3	4.9	2.8	60	.74
2	41	17	7.2	9.4	155	8.5	17	4.1	3.9	2.2	10	.68
3	9.5	28	7.2	7.2	250	10	12	26	3.4	1.3	8.6	.56
4	5.4	21	8.5	6.2	92	8.6	11	15	3.0	2.0	5.0	.51
5	4.2	15	20	7.0	43	8.0	10	6.3	2.8	7.5	11	1.2
6	76	12	21	8.6	25	7.2	8.5	4.9	2.5	3.8	6.0	2.3
7	14	10	15	5.4	21	6.9	8.4	4.2	2.2	2.8	5.0	1.5
8	7.0	8.5	12	7.4	15	7.1	10	4.5	1.9	2.1	10	1.2
9	6.6	6.6	9.8	6.2	13	6.7	8.0	7.6	1.8	1.8	8.0	.92
10	5.6	6.0	8.5	6.2	12	6.2	7.4	4.6	1.8	1.4	6.0	.67
11	13	6.2	8.5	10	11	5.9	7.2	3.7	1.6	1.4	5.0	.54
12	45	5.9	7.8	36	13	6.1	45	3.4	1.7	5.0	4.0	.47
13	160	5.9	7.8	59	105	6.2	25	3.1	1.5	10	3.0	.41
14	50	5.8	5.9	40	40	6.1	14	13	1.3	3.0	2.8	.34
15	30	5.4	6.9	22	24	5.9	10	58	1.1	1.8	1.6	.31
16	22	5.4	7.5	14	18	6.6	9.4	56	1.1	1.4	1.1	.25
17	17	5.2	7.5	11	18	14	7.2	13	.96	7.2	.95	.21
18	14	5.0	7.5	12	17	8.3	6.2	7.9	1.0	8.4	.95	.28
19	9.9	5.0	5.9	12	36	6.9	5.2	7.1	1.3	27	.82	.59
20	10	5.4	26	10	21	6.1	5.8	7.3	5.8	6.1	.75	.57
21	15	5.2	29	26	15	5.9	6.3	6.3	230	3.2	.65	.46
22	20	5.0	14	20	14	44	11	46	33	2.3	.52	.44
23	35	4.6	9.3	15	12	17	15	47	10	2.0	.42	.47
24	40	32	8.5	13	14	10	8.0	14	6.3	1.5	.34	.43
25	800	38	8.2	11	12	8.7	9.0	15	4.9	1.3	.28	.42
26	110	13	7.5	8.8	14	14	6.8	9.3	3.9	1.4	.23	.43
27	60	25	7.2	8.5	12	16	5.6	7.1	3.2	1.2	.27	.40
28	60	20	6.9	8.5	10	12	5.2	6.1	3.0	1.2	1.0	.46
29	30	13	6.2	8.3	9.4	9.6	4.9	5.3	4.6	2.0	1.8	4.2
30	20	12	6.6	8.9	------	9.4	4.6	5.4	4.0	20	1.1	15
31	15	------	11	9.1	------	40	------	5.9	------	250	.87	------
TOTAL	1,753.6	351.5	324.4	512.8	1,160.6	326.5	331.7	423.2	348.66	385.6	157.45	36.98
MEAN	56.6	11.7	10.5	16.5	40.0	10.5	11.1	13.6	11.6	12.4	5.08	1.23
MAX	800	38	29	59	250	44	45	58	230	250	60	15
MIN	4.2	4.6	5.9	6.2	9.2	5.9	4.6	3.1	.96	1.2	.23	.21
CFSM	3.70	.76	.69	1.08	2.61	.69	.73	.89	.76	.81	.33	.08
IN.	4.26	.85	.79	1.25	2.82	.79	.81	1.02	.85	.94	.38	.09

CAL YR 1971 TOTAL 8,307.37 MEAN 22.8 MAX 800 MIN .26 CFSM 1.49 IN 20.20
WTR YR 1972 TOTAL 6,109.99 MEAN 16.7 MAX 800 MIN .21 CFSM 1.09 IN 14.86

PEAK DISCHARGE (BASE, 350 CFS)

NOTE.--No gage-height record Oct. 8 to Nov. 8.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-25	Unknown	7.71	1,770	2-13	0645	4.89	412
2- 2	0600	4.72	361	6-21	1345	4.97	436
2- 3	1800	5.41	588				

02102000 Deep River at Moncure, N. C.

LOCATION.--Lat 35°37'41", long 79°06'48", Lee County, on right bank 1.0 mile upstream from Lockville Dam, 1.2 miles upstream from bridge on U. S. Highway 1, 1.5 miles northwest of Moncure, 2.2 miles downstream from Rocky River, and 4.5 miles upstream from confluence with Haw River.

DRAINAGE AREA.--1,410 sq mi, approximately.

PERIOD OF RECORD.--July 1930 to current year. Records for May 1898 to December 1899 published in 21st Annual Report, Part 4, and in Bulletins 34 and 39 of North Carolina Department of Conservation and Development have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 185.06 ft above mean sea level.

AVERAGE DISCHARGE.--42 years, 1,419 cfs (13.67 inches per year).

EXTREMES.--Current year: Maximum discharge, 26,700 cfs Oct. 25 (gage height, 9.79 ft); minimum daily, 103 cfs Aug. 28.
Period of record: Maximum discharge, 80,300 cfs Sept. 18, 1945 (gage height, 17.20 ft); minimum, 5.5 cfs Oct. 10, 1954 (gage height, 0.35 ft).

REMARKS.--Records good. Diurnal fluctuation and some regulation at low flow caused by small powerplants above station. Water quality records collected 1.5 miles downstream from station for the current year are published in Part 2 of this report.

REVISIONS.--WSP 822: Drainage area. WSP 1082: (1930-46 not previously published).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	700	990	1,370	820	1,110	1,300	2,990	780	1,290	940	1,280	252
2	2,500	920	1,040	840	7,860	1,100	2,570	720	1,860	740	1,080	150
3	5,000	1,240	890	720	12,000	1,000	1,720	1,600	1,200	543	639	200
4	1,500	2,470	850	675	14,800	1,100	1,320	5,220	860	448	461	360
5	900	1,820	1,030	675	12,700	950	1,230	3,190	657	461	435	400
6	900	1,050	2,110	870	4,700	900	1,240	1,540	550	454	403	600
7	800	870	2,250	970	2,380	850	1,100	1,110	494	543	328	1,500
8	900	760	1,780	820	1,990	800	1,190	927	440	480	355	500
9	900	884	2,140	893	1,620	750	1,570	940	409	403	435	350
10	1,500	830	1,430	1,240	1,370	850	1,430	1,570	373	355	639	250
11	10,000	606	1,140	6,490	1,240	1,000	1,100	1,320	344	317	409	200
12	4,500	590	1,020	5,530	1,170	750	1,840	960	317	311	306	150
13	2,000	574	1,010	4,010	5,830	700	7,040	790	305	350	251	130
14	1,200	550	1,520	3,250	8,040	700	4,080	720	278	448	246	125
15	840	536	1,140	4,230	3,610	750	2,140	2,230	257	454	218	120
16	1,040	515	950	2,320	2,140	750	1,560	6,620	237	367	205	115
17	5,080	501	900	1,590	1,740	900	1,290	5,040	228	311	196	110
18	2,570	487	920	1,280	1,690	1,500	1,120	2,890	216	268	176	130
19	1,300	474	980	1,170	2,730	1,200	990	1,630	209	379	160	180
20	959	467	990	1,140	3,370	1,000	910	2,190	257	1,430	153	350
21	820	461	2,550	1,230	2,220	800	880	4,200	5,630	711	150	250
22	840	454	2,490	1,740	1,660	1,100	1,030	3,430	14,100	448	127	200
23	2,470	435	1,550	1,750	1,440	3,070	1,960	3,130	14,700	350	124	180
24	10,500	441	1,130	1,440	1,300	1,890	2,850	6,020	7,040	295	118	160
25	21,400	2,750	960	1,230	1,300	1,240	1,630	3,720	1,250	289	115	140
26	14,500	3,630	910	1,090	1,300	1,080	1,500	2,320	820	350	109	130
27	5,690	1,780	850	960	1,200	1,350	1,200	1,680	675	289	109	120
28	2,040	2,430	800	900	1,200	1,590	990	1,290	590	333	103	150
29	1,400	2,120	750	880	1,200	1,320	880	1,010	622	536	284	600
30	1,220	1,560	720	880	------	1,140	810	870	1,350	1,230	268	8,000
31	1,080	------	711	1,030	------	1,260	------	820	------	1,010	328	------
TOTAL	105,700	32,625	38,941	58,513	104,930	34,690	52,060	72,137	57,769	15,843	10,210	16,042
MEAN	3,410	1,088	1,256	1,888	3,618	1,119	1,735	2,327	1,926	511	329	535
MAX	21,400	3,630	2,550	6,490	14,800	3,070	7,040	6,620	14,700	1,430	1,280	8,000
MIN	500	435	711	675	1,110	700	810	720	209	268	103	110
CFSM	2.42	.77	.89	1.34	2.57	.79	1.23	1.65	1.37	.36	.23	.38
IN.	2.79	.86	1.03	1.54	2.77	.92	1.37	1.90	1.52	.42	.27	.42

CAL YR 1971 TOTAL 703,967 MEAN 1,929 MAX 21,400 MIN 129 CFSM 1.37 IN 18.57
WTR YR 1972 TOTAL 599,460 MEAN 1,638 MAX 21,400 MIN 103 CFSM 1.16 IN 15.82

PEAK DISCHARGE (BASE, 15,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-25	1000	9.79	26,700	2- 4	0200	7.96	17,100

02102500 Cape Fear River at Lillington, N. C.

LOCATION.--Lat 35°24'30", long 78°48'48", Harnett County, near right bank in downstream end of pier of downstream bridge on U. S. Highway 401, 1,800 ft downstream from Norfolk Southern Railway bridge, 0.5 mile north of Lillington, 1 mile downstream from Neal Creek, and at mile 178.

DRAINAGE AREA.--3,440 sq mi, approximately.

PERIOD OF RECORD.--December 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 104.62 ft above mean sea level. Prior to Oct. 8, 1927, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--48 years (1924-72), 3,288 cfs (12.98 inches per year).

EXTREMES.--Current year: Maximum discharge, 43,900 cfs Oct. 25 (gage height, 17.24 ft); minimum, 264 cfs Sept. 16, 17 (gage height, 0.91 ft).
Period of record: Maximum discharge not determined, Sept. 19, 1945 (gage height, 33.19 ft, from floodmark), maximum daily, 140,000 cfs Sept. 19, 1945; minimum discharge, 11 cfs Oct. 14, 15, 1954 (gage height, -0.17 ft).

REMARKS.--Records excellent. Diurnal fluctuation and slight regulation at low flow caused by powerplants above station. Fluctuation and regulation by Buckhorn Reservoir 13 miles above station ended in December 1962. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1002: 1930(M). WSP 1032: 1942(m). WSP 1303: 1944(M). WSP 1333: 1945. WSP 1383: 1924-29, 1936. WSP 1703: 1929.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,120	2,920	4,050	1,850	2,250	2,860	5,010	1,500	3,720	3,130	3,290	647
2	16,800	2,510	3,240	2,090	10,400	2,810	6,030	1,420	3,510	2,100	3,120	552
3	14,500	2,930	2,600	1,790	19,700	2,910	4,150	1,840	2,280	1,480	3,970	416
4	6,360	6,120	2,440	1,620	31,500	2,600	3,180	11,400	1,660	1,190	2,550	416
5	4,000	4,620	2,450	1,630	24,600	2,340	2,780	8,880	1,380	1,280	2,260	399
6	10,700	3,110	3,700	1,830	14,000	2,140	2,720	4,730	1,210	1,570	5,270	1,150
7	13,900	2,650	4,630	2,160	8,710	1,950	2,450	3,190	1,140	1,340	2,410	1,640
8	5,180	2,270	4,810	2,070	6,980	1,880	2,560	2,370	1,070	1,240	1,580	1,150
9	2,970	1,990	5,600	2,150	4,820	1,820	5,070	2,110	1,090	1,060	1,690	908
10	6,340	1,720	4,010	2,520	3,650	1,860	3,970	2,960	996	903	1,620	674
11	24,900	1,640	3,230	11,500	3,120	1,810	2,970	2,840	906	859	1,210	543
12	13,000	1,580	2,840	12,400	2,890	1,690	2,910	2,050	792	921	901	535
13	5,850	1,510	2,660	8,500	8,910	1,610	9,270	1,650	848	1,170	690	403
14	4,240	1,450	3,010	11,700	19,400	1,630	8,650	1,580	774	1,420	686	385
15	3,170	1,410	2,900	9,500	10,000	1,620	4,970	6,360	732	2,070	839	347
16	2,370	1,350	2,370	6,320	6,530	1,610	3,620	16,500	651	1,160	765	377
17	6,480	1,310	2,190	4,730	5,590	2,590	2,930	12,000	739	926	651	366
18	6,080	1,270	2,220	3,810	4,790	4,190	2,460	7,220	674	971	638	644
19	3,210	1,240	2,350	3,500	6,090	3,390	2,080	6,060	613	1,240	596	1,340
20	2,380	1,210	2,280	3,360	7,680	2,480	1,880	7,770	1,340	1,910	490	843
21	2,190	1,190	4,360	3,000	6,050	2,010	1,830	9,290	5,300	1,650	490	663
22	2,180	1,120	5,540	3,780	4,670	2,660	2,060	5,910	32,300	1,010	490	545
23	4,300	1,110	3,950	4,140	3,810	6,090	3,550	7,670	36,200	797	477	491
24	21,400	1,110	2,900	3,510	3,470	4,790	5,380	9,240	20,700	701	477	414
25	35,300	5,790	2,450	3,000	3,550	3,100	3,900	6,510	7,020	619	455	424
26	31,600	9,800	2,180	2,570	3,620	2,630	3,230	4,930	3,800	635	484	454
27	17,100	5,300	2,020	2,280	3,830	2,820	2,660	3,740	2,340	656	436	386
28	9,370	6,270	1,930	2,530	3,660	3,180	2,110	2,930	1,880	598	432	534
29	6,600	6,050	1,800	2,580	3,180	2,870	1,790	2,260	2,230	834	497	530
30	4,710	4,650	1,720	2,290	------	2,510	1,640	1,900	3,330	1,710	570	1,670
31	3,460	------	1,710	2,150	------	2,530	------	2,090	------	3,040	664	------
TOTAL	291,780	87,200	94,150	126,890	237,450	80,980	107,810	160,900	141,225	40,192	40,698	19,846
MEAN	9,412	2,907	3,037	4,093	8,188	2,612	3,594	5,190	4,708	1,297	1,313	662
MAX	35,300	9,800	5,600	12,400	31,500	6,090	9,270	16,500	36,200	3,130	5,270	1,670
MIN	1,120	1,110	1,710	1,620	2,250	1,610	1,640	1,420	613	598	432	347
CFSM	2.74	.85	.88	1.19	2.38	.76	1.04	1.51	1.37	.38	.38	.19
IN.	3.16	.94	1.02	1.37	2.57	.88	1.17	1.74	1.53	.43	.44	.21

CAL YR 1971 TOTAL 1,582,147 MEAN 4,335 MAX 40,800 MIN 412 CFSM 1.26 IN 17.11
WTR YR 1972 TOTAL 1,429,121 MEAN 3,905 MAX 36,200 MIN 347 CFSM 1.14 IN 15.45

PEAK DISCHARGE (BASE, 30,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-25	2100	17.24	43,900	6-23	0600	16.10	38,800
2- 4	1600	15.27	35,100				

02102908 Flat Creek near Inverness, N. C.

LOCATION.--Lat 35°10'54", long 79°10'40", Hoke County, Fort Bragg military reservation, on left bank 15 ft downstream from culvert on Manchester Road, 0.4 mile upstream from mouth, and 3.6 miles east of Inverness.

DRAINAGE AREA.--7.65 sq mi.

PERIOD OF RECORD.--June 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 191.18 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 210 cfs July 13 (gage height, 4.45 ft); minimum, 5.8 cfs July 15, 16, 17 (gage height, 0.99 ft).
Period of record: Maximum discharge, 210 cfs July 13, 1972 (gage height, 4.45 ft); minimum, 2.4 cfs Feb. 12, 1969 (gage height, 0.85 ft) due to regulation from unknown source; minimum unregulated, 3.7 cfs many days in August, September and October 1968.
REVISIONS.--The figures of maximum discharge for some water years have been revised as shown in the following table. They supercede figures published in WRD N. C. as indicated.

WRD N.C.	Water year	Date	Discharge (cfs)	Gage height (feet)
1968	1968	July 6, 1968	161	3.63
1969	1969	Oct. 20, 1968	139	3.26
1970	1970	Apr. 14, 1970	152	3.48

REMARKS.--Records good except those for period of no gage-height record, which are fair. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	17	12	10	34	13	16	9.9	29	14	19	14
2	45	16	12	11	45	13	13	9.5	13	13	12	16
3	22	16	12	11	35	13	11	16	11	11	7.4	14
4	13	15	15	10	50	12	11	16	9.5	10	6.8	13
5	12	14	21	11	36	12	12	10	9.2	12	7.4	30
6	30	14	17	10	26	12	11	9.2	8.8	14	7.4	26
7	18	14	13	10	35	12	11	8.5	8.8	13	7.7	13
8	12	14	13	9.9	24	12	19	9.5	8.2	11	13	11
9	12	15	12	9.9	15	11	13	17	8.0	10	7.7	11
10	34	14	12	17	13	11	11	11	8.0	9.9	19	11
11	34	13	12	30	12	11	11	9.2	8.5	11	12	11
12	16	13	12	40	12	11	25	8.8	7.7	19	7.4	12
13	14	12	12	30	30	11	26	8.2	7.7	96	6.8	12
14	13	12	11	26	12	11	14	18	7.4	17	12	13
15	13	12	12	20	12	11	12	17	7.1	11	7.7	13
16	21	11	11	16	11	13	11	13	7.1	8.6	8.5	13
17	18	11	16	14	11	31	11	9.5	7.1	10	8.5	15
18	13	11	17	12	17	19	10	9.9	7.1	25	8.8	28
19	13	11	12	11	19	13	9.9	15	7.4	50	8.5	13
20	13	12	14	10	35	12	9.9	13	23	14	11	10
21	13	11	16	16	25	12	11	15	66	9.5	9.5	10
22	14	11	13	13	21	20	12	18	29	7.4	8.2	11
23	29	11	11	12	18	14	11	22	13	7.4	8.0	11
24	36	14	11	11	15	12	14	17	12	8.8	8.0	11
25	29	22	11	10	13	12	36	13	14	7.1	7.7	12
26	18	13	11	10	14	16	15	11	16	16	8.2	12
27	17	17	11	10	15	15	12	11	16	17	8.5	12
28	17	15	11	10	13	13	11	9.9	16	13	13	21
29	16	13	11	11	13	12	11	9.2	18	19	15	22
30	17	13	11	17	------	12	9.9	17	17	22	11	36
31	23	------	10	25	------	17	------	33	------	15	12	------
TOTAL	616	407	395	463.8	631	419	410.7	414.3	420.6	521.7	307.7	457
MEAN	19.9	13.6	12.7	15.0	21.8	13.5	13.7	13.4	14.0	16.8	9.93	15.2
MAX	45	22	21	40	50	31	36	33	66	96	19	36
MIN	12	11	10	9.9	11	11	9.9	8.2	7.1	7.1	6.8	10
CFSM	2.60	1.78	1.66	1.96	2.85	1.76	1.79	1.75	1.83	2.20	1.30	1.99
IN.	3.00	1.98	1.92	2.26	3.07	2.04	2.00	2.01	2.05	2.54	1.50	2.22

CAL YR 1971 TOTAL 5,017.2 MEAN 13.7 MAX 48 MIN 5.8 CFSM 1.79 IN 24.40
WTR YR 1972 TOTAL 5,463.8 MEAN 14.9 MAX 96 MIN 6.8 CFSM 1.95 IN 26.57

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-21	1245	2.53	92	7-19	0400	2.48	89
7-13	0800	4.45	210				

NOTE.--No gage height record Jan. 11 to Feb. 26.

02105500 Cape Fear River at William O. Huske Lock near Tarheel, N. C.

LOCATION.--Lat 34°50'05", long 78°49'27", Bladen County, on right bank 100 ft upstream from William O. Huske Lock, 1 mile downstream from Cumberland-Bladen County line, 7 miles north of Tarheel, 9 miles upstream from Phillips Creek, and at mile 123.

DRAINAGE AREA.--4,810 sq mi, approximately.

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1964, published as Cape Fear River at lock 3 near Tarheel, N. C.

GAGE.--Water-stage recorder and concrete lock and dam control. Datum of gage is 28.968 ft above mean sea level. Prior to Jan. 8, 1939, nonrecording gage on upper lock wall 100 ft downstream at same datum. Auxiliary water-stage recorder 1.8 miles downstream from base gage; prior to Jan. 14, 1943, auxiliary non-recording gage 400 ft downstream on lower end of lock wall; Jan. 14, 1943 to Sept. 30, 1953, auxiliary water-stage recorder at site 600 ft downstream.

AVERAGE DISCHARGE.--35 years, 4,858 cfs (13.71 inches per year).

EXTREMES.--Current year: Maximum daily discharge, 36,000 cfs Oct. 27; maximum gage height, 21.01 ft Oct. 27; minimum discharge, 730 cfs Sept. 16 (gage height, 1.06 ft); minimum daily, 782 cfs Sept. 16.
Period of record: Maximum discharge not determined; maximum gage height, 43.44 ft Sept. 22, 1945; maximum daily discharge, 112,000 cfs Sept. 21, 1945; minimum discharge, 170 cfs Sept. 20, 1954; minimum daily, 208 cfs Sept. 13, 1954.

REMARKS.--Records excellent. Slight diurnal fluctuation and some regulation at short periods at low flow caused by powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,440	5,370	5,580	2,580	4,420	5,310	4,580	2,610	3,630	4,260	5,560	1,540
2	6,210	4,730	4,870	2,670	6,630	4,850	5,170	2,380	4,620	3,580	5,080	1,380
3	17,000	4,250	4,040	2,810	10,100	4,660	6,110	2,320	4,820	2,600	4,840	1,230
4	11,000	5,690	3,630	2,460	24,600	4,630	5,910	5,880	3,470	1,840	4,610	1,030
5	10,000	7,160	3,570	2,420	33,400	4,200	4,450	13,000	2,540	1,830	3,850	1,670
6	6,600	5,500	3,950	2,500	23,100	3,850	4,230	9,330	2,230	2,200	4,170	1,900
7	14,600	4,340	5,450	2,750	17,000	3,580	3,990	5,900	1,930	2,230	4,610	2,380
8	12,400	3,830	5,710	2,800	11,000	3,430	3,950	4,130	1,800	2,010	2,870	2,470
9	7,400	3,400	6,500	2,810	9,390	3,290	4,380	3,410	1,720	1,830	2,430	1,910
10	3,200	3,110	6,050	3,160	7,250	3,120	5,630	3,320	1,630	1,650	3,300	1,510
11	12,000	2,830	4,720	7,840	5,870	3,070	5,400	3,710	1,520	1,450	2,590	1,210
12	26,000	2,720	4,080	14,700	5,270	2,970	4,610	3,660	1,350	1,640	2,250	1,020
13	15,000	2,690	3,730	14,500	6,260	2,840	5,200	2,870	1,230	2,340	1,770	945
14	10,000	2,590	3,640	14,600	16,000	2,760	6,960	2,470	1,270	3,040	1,420	831
15	6,500	2,480	4,000	15,700	17,900	2,760	8,860	2,580	1,200	3,520	1,250	794
16	4,820	2,420	3,680	12,600	12,700	2,700	7,360	11,000	1,130	3,190	1,610	782
17	4,730	2,380	3,340	9,710	9,540	2,860	5,650	18,200	1,080	2,450	1,640	1,010
18	8,640	2,270	3,390	7,250	7,990	3,700	4,560	12,100	1,060	2,420	1,440	1,920
19	6,700	2,170	3,430	6,100	8,650	4,250	3,710	8,000	1,070	2,990	1,330	2,730
20	4,660	2,180	3,510	5,670	10,800	4,710	3,280	7,460	1,060	3,140	1,220	2,800
21	3,820	2,070	3,970	5,300	10,800	4,720	2,920	10,000	1,190	3,380	1,200	2,220
22	3,510	2,110	6,300	5,040	8,890	4,450	2,930	10,400	12,600	2,760	1,200	1,740
23	3,620	1,970	6,040	5,980	7,210	4,590	3,100	8,330	25,600	2,210	1,200	1,400
24	7,000	1,970	4,640	5,890	6,260	5,250	3,730	11,400	31,800	1,670	1,130	1,150
25	16,000	2,260	3,770	5,150	5,990	5,690	5,430	11,100	26,600	1,380	931	1,040
26	21,000	9,160	3,320	4,640	5,850	5,200	5,770	8,560	11,800	1,160	933	941
27	36,000	9,190	3,070	4,090	5,930	4,650	4,960	6,700	5,160	1,840	1,090	956
28	26,000	6,560	2,940	3,680	6,020	4,620	3,980	5,350	2,930	2,080	1,410	1,000
29	20,000	7,700	2,800	3,920	5,820	4,770	3,420	4,290	2,610	1,790	1,870	1,430
30	12,900	6,710	2,640	4,000	------	4,640	2,920	3,440	2,900	2,900	1,860	2,230
31	6,850	------	2,640	4,190	------	4,450	------	3,250	------	4,060	1,670	------
TOTAL	345,600	121,810	129,000	187,510	318,640	126,570	143,550	207,150	163,550	75,440	72,334	45,169
MEAN	11,150	4,060	4,161	6,049	10,990	4,083	4,785	6,682	5,452	2,434	2,333	1,506
MAX	36,000	9,190	6,500	15,700	33,400	5,690	8,860	18,200	31,800	4,260	5,560	2,800
MIN	1,440	1,970	2,640	2,420	4,420	2,700	2,920	2,320	1,060	1,160	931	782
CFSM	2.32	.84	.87	1.26	2.28	.85	.99	1.39	1.13	.51	.49	.31
IN.	2.67	.94	1.00	1.45	2.46	.98	1.11	1.60	1.26	.58	.56	.35

CAL YR 1971 TOTAL 2,149,307 MEAN 5,889 MAX 38,500 MIN 830 CFSM 1.22 IN 16.62
WTR YR 1972 TOTAL 1,936,323 MEAN 5,291 MAX 36,000 MIN 782 CFSM 1.10 IN 14.98

02105769 Cape Fear River at Lock 1 near Kelly, N. C.

LOCATION.--Lat 34°24'15", long 78°17'38", Bladen County, on right bank near upstream end of Lock No. 1, 1.3 miles upstream from Natmore Creek, 2.0 miles upstream from bridge on State Highway 141, 4.6 miles southeast of Kelly, and at mile 67.

DRAINAGE AREA.--5,220 sq mi.

PERIOD OF RECORD.--July 1969 to current year.

GAGE.--Water-stage recorder with concrete lock and dam control. Datum of gage is 2.90 ft below mean sea level (Corps of Engineers bench mark).

EXTREMES.--Current year: Maximum discharge, 28,000 cfs Feb. 8 (gage height, 21.65 ft); minimum, 796 cfs Sept. 16 (gage height, 14.86 ft).
Period of record: Maximum discharge, 52,900 cfs Mar. 8, 1971 (gage height, 23.34 ft); minimum, 567 cfs Oct. 14, 1970 (gage height, 14.63 ft).

REMARKS.--Records good. Slight diurnal fluctuation and some regulation for short periods at low flow caused by powerplants above station. The city of Wilmington diverted an average of 13.8 cfs for municipal water supply, most of which is returned as sewage below station. Water quality records collected 2.0 miles downstream from station for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,270	10,800	6,820	2,740	4,990	6,140	5,260	3,070	4,060	3,860	4,650	1,770
2	2,190	7,060	5,780	2,720	6,240	5,630	6,440	2,700	5,020	4,300	5,380	1,820
3	9,540	5,500	4,990	2,860	10,500	5,320	8,020	2,640	5,690	3,470	5,110	1,640
4	14,600	5,050	4,350	2,820	16,100	5,170	7,420	3,710	4,760	2,620	4,970	1,380
5	13,700	6,570	4,010	2,580	18,900	4,910	6,010	8,640	3,520	2,210	4,190	1,580
6	11,400	6,960	3,990	2,570	22,400	4,490	5,050	11,500	2,720	2,190	3,090	1,980
7	9,960	5,630	4,650	2,640	26,800	4,110	4,820	9,620	2,360	2,430	4,600	2,210
8	13,600	4,600	5,780	2,860	27,200	3,890	4,540	6,470	2,100	2,330	4,110	2,530
9	12,900	4,010	6,110	2,860	22,300	3,640	4,740	4,680	1,980	2,190	2,880	2,380
10	8,400	3,590	6,710	3,030	16,300	3,430	6,110	3,910	1,860	1,940	2,570	1,930
11	7,570	3,270	6,010	4,430	10,700	3,290	6,440	4,060	1,770	1,830	2,620	1,550
12	14,200	3,010	4,970	9,710	7,610	3,220	5,720	4,350	1,520	2,550	2,490	1,270
13	17,300	2,900	4,350	13,800	7,100	3,090	5,780	3,660	1,470	3,030	2,100	1,090
14	16,800	2,840	3,990	15,200	9,580	2,970	8,680	3,050	1,470	3,540	1,760	1,010
15	12,600	2,720	4,010	16,300	14,900	2,920	11,800	2,880	1,370	3,740	1,490	900
16	8,210	2,620	4,140	16,800	16,700	2,900	10,600	5,110	1,280	4,040	1,410	840
17	5,880	2,550	3,840	15,700	15,500	3,360	7,900	11,300	1,220	3,290	1,590	924
18	6,780	2,490	3,640	12,700	12,500	4,790	6,040	14,000	1,170	2,660	1,560	1,440
19	8,680	2,380	3,590	9,290	10,400	6,850	4,910	13,200	1,170	2,780	1,440	2,330
20	7,030	2,310	3,690	7,380	10,600	7,200	4,010	10,100	1,180	3,360	1,320	2,970
21	5,170	2,270	3,810	6,640	11,800	6,110	3,520	8,960	1,930	3,340	1,210	2,800
22	4,350	2,190	4,880	6,070	11,700	5,410	3,290	10,800	4,850	3,360	1,240	2,330
23	4,240	2,140	6,340	6,210	10,100	5,720	3,400	10,900	13,600	2,530	1,240	1,850
24	5,690	2,100	5,880	6,750	8,290	6,990	4,400	10,300	17,800	2,060	1,210	1,520
25	12,500	2,210	4,740	6,440	7,170	7,870	6,140	11,700	21,000	1,700	1,110	1,280
26	17,200	4,170	3,940	5,720	6,680	6,370	6,540	11,400	23,800	1,430	1,080	1,130
27	20,300	9,120	3,470	5,110	6,640	5,350	5,940	9,500	19,700	1,530	1,070	1,040
28	24,500	8,560	3,250	4,510	6,710	5,110	5,080	7,380	10,100	2,010	1,220	1,060
29	27,300	7,610	3,090	4,320	6,540	5,260	4,190	5,750	4,540	1,990	1,770	1,180
30	23,700	7,870	2,900	4,510	------	5,110	3,540	4,570	3,470	2,120	1,960	1,650
31	17,000	------	2,800	4,760	------	5,050	------	3,890	------	3,070	1,910	------
TOTAL	364,560	135,100	140,520	210,030	362,950	151,670	176,330	223,800	168,480	83,500	74,350	49,384
MEAN	11,760	4,503	4,533	6,775	12,520	4,893	5,878	7,219	5,616	2,694	2,398	1,646
MAX	27,300	10,800	6,820	16,800	27,200	7,870	11,800	14,000	23,800	4,300	5,380	2,970
MIN	1,270	2,100	2,800	2,570	4,990	2,900	3,290	2,640	1,170	1,430	1,070	840
CFSM	2.25	.86	.87	1.30	2.40	.94	1.13	1.38	1.08	.52	.46	.32
IN.	2.60	.96	1.00	1.50	2.59	1.08	1.26	1.59	1.20	.60	.53	.35

CAL YR 1971 TOTAL 2,462,078 MEAN 6,745 MAX 51,700 MIN 948 CFSM 1.29 IN 17.55
WTR YR 1972 TOTAL 2,140,674 MEAN 5,849 MAX 27,300 MIN 840 CFSM 1.12 IN 15.26

02105900 Hood Creek near Leland, N. C.

LOCATION.--Lat 34°16'43", long 78°07'34", Brunswick County, on right bank 150 ft downstream from bridge on U. S. Highway 74 and 76, 0.4 mile downstream from Pasture Pond Branch, 1 mile southeast of Maco, and 4.8 miles northwest of Leland.

DRAINAGE AREA.--21.6 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements water years 1950-56, and annual maximum, water years 1953-56. October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 12.22 ft above mean sea level. Prior to Nov. 28, 1956, crest-gage at site 150 ft upstream at datum 9.60 ft lower. Nov. 29, 1956 to Apr. 24, 1969 water-stage recorder 150 ft upstream at datum 0.19 ft higher.

AVERAGE DISCHARGE.--16 years, 35.6 cfs (22.38 inches per year).

EXTREMES.--Current year: Maximum discharge, 448 cfs Oct. 23, July 12 (gage height, 6.66 ft); minimum daily, 0.10 cfs June 18, 19.
Period of record: Maximum discharge, 2,050 cfs Sept. 20, 1955 (gage height, 10.58 ft, present datum) from rating curve extended above 650 cfs; no flow Oct. 5, 1968.

REMARKS.--Records good except those below 2.0 cfs, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	44	19	8.1	46	22	40	2.0	1.6	.30	4.7	1.8
2	43	38	14	9.7	126	22	34	1.8	1.2	.27	10	71
3	40	33	15	12	225	42	25	2.2	.80	.25	9.1	141
4	29	29	30	9.9	361	45	19	5.4	.49	.23	5.8	73
5	21	24	29	9.3	215	33	16	4.0	.35	.22	4.4	75
6	15	20	21	9.0	138	27	13	2.4	.27	.47	3.6	219
7	12	18	15	8.1	103	21	12	1.7	.38	.51	4.7	153
8	8.8	16	16	7.5	84	18	13	1.7	.32	.40	21	88
9	13	14	14	7.1	68	16	12	3.1	.26	.45	41	53
10	181	13	12	8.0	56	14	10	2.7	.23	.92	25	31
11	272	12	12	15	47	12	9.7	1.7	.20	24	12	20
12	152	11	24	32	44	12	12	1.4	.17	310	7.6	14
13	95	10	42	30	119	11	19	1.1	.16	258	5.2	11
14	66	9.7	38	34	177	10	14	1.4	.14	126	3.5	8.8
15	48	9.3	28	71	119	9.7	10	2.6	.13	75	2.9	7.0
16	42	9.0	22	111	88	9.3	8.5	2.4	.12	48	16	5.6
17	58	8.4	22	90	86	14	7.3	1.5	.11	27	24	5.8
18	59	8.1	25	63	108	13	6.0	2.2	.10	16	14	19
19	44	7.8	20	49	102	10	5.4	2.7	.10	11	15	36
20	34	7.5	18	41	84	8.8	5.0	1.7	.47	7.6	10	32
21	34	7.1	22	40	67	8.1	4.7	1.5	12	5.4	7.3	20
22	73	6.4	20	50	54	29	4.7	2.9	18	3.8	5.2	15
23	367	6.1	16	65	44	46	4.7	3.6	6.6	2.9	4.0	11
24	264	7.5	14	68	38	27	4.0	3.1	2.9	2.2	3.1	8.8
25	219	20	13	56	34	19	3.6	2.9	1.5	1.9	2.0	6.8
26	197	20	12	44	31	38	3.5	2.7	1.1	1.8	1.6	5.4
27	137	14	11	35	32	39	3.1	3.3	.76	2.9	1.5	6.0
28	102	12	10	30	30	27	2.7	3.3	.61	3.3	1.3	6.3
29	79	16	9.4	29	26	21	2.6	2.4	.80	2.9	1.4	10
30	62	26	8.8	39	------	18	2.2	1.7	.51	2.6	1.8	10
31	51	------	8.6	46	------	27	------	1.5	------	1.2	1.5	------
TOTAL	2,845.8	476.9	580.8	1,126.7	2,752	668.9	326.7	74.6	52.38	937.52	270.2	1,164.3
MEAN	91.8	15.9	18.7	36.3	94.9	21.6	10.9	2.41	1.75	30.2	8.72	38.8
MAX	367	44	42	111	361	46	40	5.4	18	310	41	219
MIN	8.8	6.1	8.6	7.1	26	8.1	2.2	1.1	.10	.22	1.3	1.8
CFSM	4.25	.74	.87	1.68	4.39	1.00	.50	.11	.08	1.40	.40	1.80
IN.	4.90	.82	1.00	1.94	4.74	1.15	.56	.13	.09	1.61	.47	2.01

CAL YR 1971 TOTAL 16,926.46 MEAN 46.4 MAX 1,320 MIN .23 CFSM 2.15 IN 29.15
WTR YR 1972 TOTAL 11,276.80 MEAN 30.8 MAX 367 MIN .10 CFSM 1.43 IN 19.42

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-10	2400	6.19	328	2- 4	1000	6.54	412
10-23	1030	6.66	448	7-12	1600	6.66	448

02106000 Little Coharie Creek near Roseboro, N. C.

LOCATION.--Lat 34°57'13", long 78°29'17", Sampson County, on downstream end of center pier of bridge on State Highway 24, 1.2 miles east of Roseboro, and 1.5 miles upstream from Bearskin Swamp.

DRAINAGE AREA.--96.4 sq mi.

PERIOD OF RECORD.--January 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80.52 ft above mean sea level (levels by Corps of Engineers). Prior to Jan. 12, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years, 114 cfs (16.06 inches per year).

EXTREMES.--Current year: Maximum discharge, 774 cfs Jan. 16 (gage height, 7.39 ft); minimum daily, 15 cfs June 18, 19.
Period of record: Maximum discharge, 3,400 cfs Oct. 7, 1964 (gage height, 9.97 ft); minimum, 0.1 cfs Sept. 13, 14, 27, Oct. 1-11, 1954.
Flood in 1924 reached a stage of 11.6 ft, from information by North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	154	83	59	434	199	195	60	92	50	181	72
2	260	138	77	58	388	183	196	59	91	38	220	74
3	280	127	72	58	329	165	203	110	110	28	197	57
4	349	117	90	58	284	147	207	191	85	25	100	44
5	351	105	107	57	260	132	195	178	70	49	80	49
6	325	95	112	55	250	126	172	143	60	60	70	53
7	268	88	114	56	230	117	149	110	50	50	60	54
8	194	80	111	57	220	109	149	73	40	35	65	48
9	137	75	98	52	215	101	143	89	35	30	75	36
10	143	73	90	80	210	94	134	82	30	25	85	29
11	197	71	84	181	205	90	129	69	25	40	100	24
12	193	69	79	204	200	85	146	56	23	70	105	21
13	184	68	76	227	200	82	187	47	21	140	95	19
14	192	67	73	446	250	82	189	54	19	160	85	17
15	183	65	75	580	310	81	196	75	18	180	75	16
16	162	64	83	734	360	84	203	89	17	190	70	15
17	143	62	107	566	380	157	182	74	16	160	67	22
18	122	60	131	438	390	169	144	65	15	140	64	30
19	110	59	127	362	370	175	107	153	15	95	75	30
20	104	63	126	306	350	196	86	178	25	85	70	26
21	92	67	125	278	320	212	78	168	150	73	60	22
22	87	69	110	260	300	211	83	178	135	37	58	22
23	127	65	100	239	290	203	89	182	117	28	56	22
24	171	63	93	219	280	185	89	174	111	26	54	20
25	199	79	82	203	260	194	85	159	69	22	52	18
26	231	84	76	187	244	222	83	148	39	22	50	17
27	275	88	73	171	243	215	86	144	30	41	50	16
28	268	90	69	156	226	193	83	130	25	71	70	16
29	235	89	66	358	210	172	72	102	30	88	85	58
30	202	88	64	430	------	159	63	88	56	126	110	84
31	173	------	62	447	------	176	------	84	------	142	100	------
TOTAL	6,096	2,482	2,835	7,582	8,208	4,716	4,123	3,512	1,619	2,326	2,684	1,031
MEAN	197	82.7	91.5	245	283	152	137	113	54.0	75.0	86.6	34.4
MAX	351	154	131	734	434	222	207	191	150	190	220	84
MIN	87	59	62	52	200	81	63	47	15	22	50	15
CFSM	2.04	.86	.95	2.54	2.94	1.58	1.42	1.17	.56	.78	.90	.36
IN.	2.35	.96	1.09	2.93	3.17	1.82	1.59	1.36	.62	.90	1.04	.40

CAL YR 1971 TOTAL 57,984.2 MEAN 159 MAX 1,730 MIN 9.0 CFSM 1.65 IN 22.38
WTR YR 1972 TOTAL 47,214.0 MEAN 129 MAX 734 MIN 15 CFSM 1.34 IN 18.22

02106500 Black River near Tomahawk, N. C.

LOCATION.--Lat 34°45'17", long 78°17'21", Sampson County, on left bank 30 ft upstream from bridge on State Highway 411, 0.2 mile downstream from Clear Run Swamp, and 3.8 miles northeast of Tomahawk.

DRAINAGE AREA.--680 sq mi.

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 24.61 ft above mean sea level. Oct. 1, 1951, to June 29, 1961, nonrecording gage on downstream side of bridge. June 30, 1961, to Sept. 30, 1964, water-stage recorder at present site at datum 25.00 ft lower.

AVERAGE DISCHARGE.--21 years, 772 cfs (15.42 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,160 cfs Feb. 7 (gage height, 13.74 ft); minimum, 120 cfs Sept. 28 (gage height, 1.93 ft).
Period of record: Maximum discharge, 11,200 cfs Oct. 9, 1964 (gage height, 21.14 ft); minimum, 8.5 cfs Oct. 13, 1954 (gage height, 0.59 ft, present site and datum).
Flood in 1928 reached a stage of 22.0 ft, present datum (discharge, 14,500 cfs) and floods in 1945 and 1948 reached a stage of 17.6 ft, present datum (discharge, 5,420 cfs), from information furnished by North Carolina State Highway Commission.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1723: 1955(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	366	1,550	700	481	1,300	1,560	1,290	466	790	430	913	922
2	926	1,420	641	468	1,500	1,460	1,380	424	928	424	985	842
3	1,320	1,290	603	445	1,820	1,340	1,420	455	939	358	1,000	917
4	1,540	1,170	694	432	2,220	1,240	1,390	1,070	816	246	852	946
5	1,780	1,030	866	428	2,610	1,160	1,300	1,400	660	285	676	974
6	2,060	906	928	411	2,960	1,080	1,180	1,500	574	544	602	915
7	2,240	812	898	404	3,140	992	1,070	1,560	566	616	522	716
8	2,160	754	848	388	3,080	918	1,000	1,590	504	502	420	500
9	1,940	696	808	377	2,850	854	1,040	1,420	353	337	492	382
10	1,700	660	766	392	2,560	792	1,020	1,050	283	246	574	302
11	1,640	632	728	678	2,270	744	948	792	251	254	708	252
12	1,710	620	692	1,080	2,010	706	918	628	230	804	832	216
13	1,780	600	652	1,250	1,920	686	1,150	525	212	1,420	840	191
14	1,820	580	616	1,470	1,970	672	1,320	481	197	1,580	678	176
15	1,790	560	586	1,740	2,090	654	1,380	557	182	1,700	568	158
16	1,650	520	575	2,040	2,210	637	1,350	635	167	1,770	450	149
17	1,480	480	576	2,340	2,330	774	1,220	660	157	1,700	400	170
18	1,330	450	688	2,700	2,390	1,040	1,050	682	148	1,340	370	293
19	1,200	440	822	3,010	2,380	1,140	904	721	140	852	350	338
20	1,060	430	846	3,070	2,330	1,160	770	930	161	840	330	307
21	908	420	856	2,860	2,300	1,120	651	982	418	782	320	249
22	822	410	860	2,540	2,260	1,100	614	1,130	909	564	310	215
23	930	400	818	2,280	2,170	1,260	690	1,250	970	434	300	189
24	1,230	390	760	2,080	2,040	1,380	692	1,230	814	524	290	177
25	1,460	520	708	1,900	1,900	1,420	664	1,130	624	606	280	162
26	1,650	670	662	1,720	1,760	1,410	714	1,090	484	546	320	148
27	1,840	641	618	1,540	1,700	1,370	666	1,120	370	385	400	135
28	1,930	595	590	1,360	1,680	1,350	597	1,090	263	384	500	127
29	1,930	622	557	1,190	1,650	1,300	550	980	230	410	650	136
30	1,840	682	529	1,120	------	1,240	508	868	358	624	800	255
31	1,690	------	508	1,180	------	1,190	------	774	------	840	950	------
TOTAL	47,722	20,950	21,999	43,374	63,400	33,749	29,446	29,190	13,698	22,347	17,682	11,459
MEAN	1,539	698	710	1,399	2,186	1,089	982	942	457	721	570	382
MAX	2,240	1,550	928	3,070	3,140	1,560	1,420	1,590	970	1,770	1,000	974
MIN	366	390	508	377	1,300	637	508	424	140	246	280	127
CFSM	2.26	1.03	1.04	2.06	3.21	1.60	1.44	1.39	.67	1.06	.84	.56
IN.	2.61	1.15	1.20	2.37	3.47	1.85	1.61	1.60	.75	1.22	.97	.63

CAL YR 1971 TOTAL 424,212 MEAN 1,162 MAX 7,180 MIN 90 CFSM 1.71 IN 23.21
WTR YR 1972 TOTAL 355,016 MEAN 970 MAX 3,140 MIN 127 CFSM 1.43 IN 19.42

02107000 South River near Parkersburg, N. C.

LOCATION.--Lat 34°48'45", long 78°27'26", Bladen County, on right bank 5 ft downstream from bridge on Secondary Road 1503, 1.9 miles southwest of Parkersburg, and 2.1 miles upstream from Cypress Creek.

DRAINAGE AREA.--382 sq mi.

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 50.38 ft above mean sea level. Prior to Oct. 13, 1961, non-recording gage at present site at datum 50.00 ft lower.

AVERAGE DISCHARGE.--21 years, 418 cfs (14.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,820 cfs Jan. 19 (gage height, 10.92 ft); minimum, 29 cfs Oct. 1 (gage height, 3.33 ft).
Period of record: Maximum discharge, 5,900 cfs Oct. 10, 1964 (gage height, 14.32 ft); minimum, 0.1 cfs Oct. 3-6, 11-14, 1954.
Flood of 1918 or 1928 reached a stage of 15.88 ft, present datum, from highwater mark witnessed by local resident.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	563	206	255	590	925	749	251	394	149	266	330
2	147	541	201	247	710	863	741	237	399	127	320	350
3	282	513	200	239	860	805	728	244	376	103	342	357
4	370	480	225	231	1,060	742	719	315	354	84	326	366
5	391	451	257	224	1,190	684	710	392	339	116	296	401
6	370	429	279	217	1,310	637	684	451	320	162	289	451
7	351	401	289	207	1,360	599	649	459	326	178	324	476
8	320	372	298	198	1,340	559	631	423	320	143	367	441
9	294	345	300	189	1,290	516	615	385	294	107	404	382
10	320	318	299	193	1,230	469	593	371	267	84	399	325
11	395	295	298	289	1,170	416	568	359	233	83	352	271
12	435	276	295	384	1,110	368	570	325	189	208	304	211
13	445	256	292	469	1,130	336	620	291	150	363	315	157
14	429	237	286	620	1,130	312	648	276	122	406	425	126
15	393	222	279	784	1,110	298	670	278	101	359	561	104
16	361	207	275	1,040	1,070	290	693	276	84	320	551	89
17	358	195	274	1,460	1,060	342	695	271	71	264	433	100
18	367	182	281	1,760	1,050	418	671	291	60	176	320	112
19	373	173	294	1,790	1,060	470	635	382	53	162	259	110
20	369	167	306	1,660	1,070	504	591	406	58	165	217	105
21	355	163	319	1,500	1,090	533	544	387	136	158	181	102
22	339	159	323	1,320	1,170	592	502	401	239	144	150	100
23	351	156	319	1,170	1,230	635	471	394	278	123	125	94
24	395	156	312	1,040	1,240	654	435	371	252	111	106	85
25	478	178	308	952	1,200	684	401	357	214	120	98	77
26	516	187	303	884	1,140	749	366	350	169	115	154	71
27	531	186	295	820	1,100	800	335	338	134	111	222	67
28	538	187	287	748	1,060	817	306	326	111	131	273	64
29	546	194	276	678	994	800	285	321	106	145	297	71
30	558	206	268	626	------	768	267	336	140	174	296	138
31	571	------	262	596	------	758	------	342	------	224	314	------
TOTAL	12,000	8,395	8,706	22,790	32,124	18,343	17,092	10,606	6,289	5,315	9,286	6,133
MEAN	387	280	281	735	1,108	592	570	342	210	171	300	204
MAX	571	563	323	1,790	1,360	925	749	459	399	406	561	476
MIN	52	156	200	189	590	290	267	237	53	83	98	64
CFSM	1.01	.73	.74	1.92	2.90	1.55	1.49	.90	.55	.45	.79	.53
IN.	1.17	.82	.85	2.22	3.13	1.79	1.66	1.03	.61	.52	.90	.60

CAL YR 1971 TOTAL 188,479 MEAN 516 MAX 3,890 MIN 16 CFSM 1.35 IN 18.35
WTR YR 1972 TOTAL 157,079 MEAN 429 MAX 1,790 MIN 52 CFSM 1.12 IN 15.30

02107600 Northeast Cape Fear River near Seven Springs, N. C.

LOCATION.--Lat 35°10'20", long 77°55'56", Wayne County, on left bank at downstream side of bridge on Secondary Road 1948, at Wayne-Duplin County line, 4.5 miles upstream from Buck Marsh Branch, and 6 miles southwest of Seven Springs.

DRAINAGE AREA.--47.5 sq mi.

PERIOD OF RECORD.--July 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 89.93 ft above mean sea level.

AVERAGE DISCHARGE.--14 years, 62.7 cfs (17.93 inches per year).

EXTREMES.--Current year: Maximum discharge, 418 cfs Aug. 29, Sept. 3 (gage height, 7.02 ft); minimum daily, 13 cfs June 16-18.
Period of record: Maximum discharge, 2,740 cfs Oct. 6, 1964 (gage height, 9.59 ft); minimum, 3.0 cfs Oct. 5, 1968 (gage height, 2.74 ft).

REMARKS.--Records good except those for period of no gage-height record, which are fair. The operation of small mills on tributaries above the station may cause slight diurnal fluctuation during periods of low flow.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	40	51	29	81	71	109	26	59	35	134	100
2	151	35	44	29	139	66	111	24	64	25	103	208
3	240	77	41	27	251	76	88	37	52	20	73	354
4	208	70	55	26	291	78	71	135	33	15	49	199
5	133	64	74	26	237	70	61	149	25	30	40	131
6	92	56	42	25	162	65	57	115	21	40	45	100
7	66	49	72	24	119	63	50	67	19	30	48	82
8	48	43	50	23	102	56	56	50	17	25	60	66
9	38	40	54	22	94	51	67	41	16	20	94	52
10	55	37	52	45	81	46	63	35	16	20	85	41
11	126	36	48	122	76	44	51	30	15	70	83	34
12	166	35	45	214	72	43	52	25	15	140	59	28
13	120	33	45	201	147	40	70	23	15	250	37	25
14	80	31	42	312	276	39	76	25	14	180	30	23
15	69	30	40	242	195	38	62	34	14	140	34	21
16	53	30	40	211	126	39	53	52	13	110	35	25
17	50	30	42	146	111	71	43	49	13	90	28	72
18	51	29	49	113	119	105	36	37	13	70	44	100
19	45	28	56	100	169	56	31	45	15	90	77	81
20	40	32	53	91	202	62	29	39	25	80	83	57
21	40	46	50	85	161	52	31	33	40	75	74	42
22	42	36	51	89	122	87	37	37	50	70	68	35
23	123	31	47	94	100	184	42	50	40	65	38	32
24	208	29	43	86	87	147	39	56	30	80	28	28
25	180	41	39	75	83	99	55	61	25	90	24	25
26	144	53	36	66	85	85	66	79	20	80	30	22
27	125	56	34	59	91	83	51	84	18	61	59	20
28	103	52	34	54	96	78	38	64	15	51	76	26
29	82	50	32	53	85	70	31	49	35	67	264	50
30	71	50	30	60	------	61	28	48	40	132	276	69
31	71	------	29	72	------	72	------	41	------	157	147	------
TOTAL	3,065	1,350	1,470	2,861	3,960	2,232	1,653	1,682	793	2,408	2,325	2,148
MEAN	98.9	45.0	47.4	92.3	137	72.0	55.1	54.3	26.4	77.7	75.0	71.6
MAX	240	86	82	312	291	189	111	189	68	250	276	354
MIN	38	28	29	22	72	38	28	23	13	15	24	20
CFSM	2.08	.95	1.00	1.94	2.88	1.52	1.16	1.14	.56	1.64	1.58	1.51
IN.	2.40	1.06	1.15	2.24	3.10	1.75	1.29	1.32	.62	1.89	1.82	1.68

CAL YR 1971 TOTAL 24,895.8 MEAN 68.2 MAX 1,180 MIN 7.2 CFSM 1.44 IN 19.50
WTR YR 1972 TOTAL 25,947.0 MEAN 70.9 MAX 354 MIN 13 CFSM 1.49 IN 20.32

NOTE.--No gage-height record June 10 to July 25.

02108000 Northeast Cape Fear River near Chinquapin, N. C.

LOCATION.--Lat 34°49'45", long 77°49'57", Duplin County, on right bank 540 ft downstream from bridge on State Highway 41, 0.5 mile downstream from Muddy Creek, and 1.2 miles west of Chinquapin.

DRAINAGE AREA.--600 sq mi.

PERIOD OF RECORD.--July 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 17.28 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--32 years, 714 cfs (16.16 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,630 cfs Feb. 6 (gage height, 12.23 ft); minimum daily, 120 cfs June 20.
Period of record: Maximum discharge, 20,400 cfs July 6, 1962 (gage height, 20.16 ft); minimum, 5.3 cfs Oct. 10, 11, 1954.
Flood in 1908 reached a stage of 22.6 ft at old bridge site 1,000 ft upstream from gage. Flood in 1928 reached a stage 0.8 ft lower than that in 1908, from information by North Carolina State Highway Commission.

REMARKS.--Records good except those for periods of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	503	1,300	584	346	1,030	1,050	1,340	450	762	600	760	616
2	1,040	1,150	574	381	1,540	1,000	1,480	420	832	680	800	1,210
3	1,610	1,040	566	368	2,180	950	1,510	400	876	740	860	1,630
4	2,050	977	673	354	2,870	860	1,440	1,500	768	820	930	1,820
5	2,240	936	760	346	3,440	820	1,290	2,600	630	860	933	1,840
6	2,250	877	796	338	3,540	780	1,100	2,690	520	800	808	1,910
7	2,030	808	784	328	3,410	740	912	2,480	450	740	606	1,960
8	1,800	732	755	320	3,110	700	802	2,130	370	680	504	1,760
9	1,540	655	724	312	2,720	660	764	1,710	320	640	528	1,430
10	1,490	597	682	313	2,280	540	710	1,480	280	620	542	1,020
11	1,630	553	634	427	1,800	620	662	1,160	240	640	594	668
12	1,740	516	596	714	1,490	600	824	746	220	700	688	462
13	1,680	485	568	892	1,610	580	1,000	530	200	900	706	340
14	1,600	457	541	1,160	2,060	560	1,200	438	180	1,100	630	262
15	1,490	432	518	1,710	2,430	540	1,400	646	160	1,300	520	206
16	1,320	413	511	2,270	2,580	520	1,350	918	150	1,400	418	170
17	1,180	395	510	2,660	2,600	500	1,300	1,010	140	1,300	372	340
18	1,040	378	576	2,780	2,480	600	1,200	909	130	1,200	346	554
19	888	364	618	2,740	2,610	700	1,000	780	125	1,140	336	520
20	760	350	640	2,480	2,590	820	800	668	120	960	450	474
21	700	342	674	2,090	2,520	980	700	634	180	860	508	422
22	600	333	688	1,770	2,360	1,120	600	710	476	740	436	406
23	900	328	668	1,710	2,140	1,450	700	948	622	640	384	378
24	1,200	331	630	1,780	1,880	1,560	800	1,090	572	620	346	302
25	1,500	411	588	1,770	1,640	1,510	900	1,130	520	700	306	230
26	1,800	470	551	1,620	1,470	1,490	840	1,210	450	800	270	184
27	2,000	501	518	1,410	1,380	1,500	760	1,230	400	900	256	158
28	2,100	517	487	1,160	1,300	1,480	640	1,150	450	880	242	148
29	1,900	537	458	977	1,150	1,390	560	1,010	500	860	314	320
30	1,700	581	433	916	------	1,230	500	860	530	820	448	402
31	1,500	------	412	993	------	1,170	------	764	------	780	524	------
TOTAL	45,591	17,766	18,727	37,485	64,310	29,120	28,984	34,401	12,173	26,460	16,365	22,142
MEAN	1,480	592	604	1,209	2,218	939	966	1,110	406	854	528	738
MAX	2,290	1,300	796	2,780	3,590	1,560	1,510	2,690	876	1,400	933	1,960
MIN	503	328	412	312	1,080	500	500	400	120	600	242	148
CFSM	2.47	.99	1.01	2.02	3.70	1.57	1.61	1.85	.68	1.42	.88	1.23
IN.	2.85	1.10	1.16	2.32	3.99	1.81	1.80	2.13	.75	1.64	1.01	1.37

CAL YR 1971 TOTAL 390,761 MEAN 1,071 MAX 9,760 MIN 50 CFSM 1.79 IN 24.23
WTR YR 1972 TOTAL 353,824 MEAN 967 MAX 3,590 MIN 120 CFSM 1.61 IN 21.94

NOTE.--No gage-height record June 6-21, June 26 to Aug. 3.

02108500 Rockfish Creek near Wallace, N. C.

LOCATION.--Lat 34°44'32", long 78°02'22", Duplin County, on right bank at downstream side of bridge on State Highway 41, 1.5 miles upstream from Doctors Creek, and 2.5 miles west of Wallace.

DRAINAGE AREA.--63.8 sq mi.

PERIOD OF RECORD.--July 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 29.36 ft above mean sea level. Prior to Oct. 1, 1958 nonrecording gage at site 1.0 mile downstream at different datum. Oct. 1, 1958, to June 1, 1960, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--17 years, 96.6 cfs (20.56 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,380 cfs July 12 (gage height, 10.30 ft); minimum, 7.0 cfs June 18, 19 (gage height, 1.09 ft).
Period of record: Maximum discharge, 4,940 cfs Aug. 18, 1971 (gage height, 12.98 ft); minimum daily, 0.4 cfs July 27-30, 1955.
Flood in 1948 reached a stage of about 15.5 ft at former site and datum, from information by local resident (discharge, 2,800 cfs).
A discharge of 0.04 cfs was measured on Sept. 8, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	49	66	30	174	124	151	23	124	83	40	22
2	359	48	61	28	426	94	185	20	151	30	55	216
3	520	42	51	28	673	101	192	60	102	19	41	322
4	414	42	93	27	828	111	145	570	57	14	28	280
5	291	73	122	27	645	88	109	615	31	41	26	195
6	203	64	131	27	459	76	76	454	23	134	25	125
7	147	55	122	26	309	65	62	262	23	79	22	90
8	108	50	87	24	228	53	57	158	23	31	53	74
9	77	42	68	23	186	50	60	125	18	19	57	34
10	99	39	65	28	168	47	68	117	15	17	44	23
11	176	37	54	59	136	42	63	124	13	30	23	17
12	208	36	48	131	115	44	72	95	12	914	17	14
13	201	34	46	176	290	42	156	48	12	1,320	13	12
14	156	38	49	238	445	38	183	67	10	879	12	11
15	106	39	53	436	419	36	145	154	9.6	479	27	10
16	72	34	45	565	300	34	139	209	9.8	265	24	9.1
17	71	31	47	409	240	85	79	167	8.8	157	14	16
18	65	29	64	298	237	115	53	85	7.5	115	14	29
19	63	28	68	219	305	120	42	52	7.5	180	16	39
20	51	27	71	173	328	94	33	40	12	168	12	28
21	44	26	77	154	285	50	30	35	26	165	12	17
22	59	26	78	158	221	107	33	90	105	121	10	14
23	243	26	66	211	169	186	90	151	103	48	8.6	12
24	391	26	54	253	144	233	93	208	56	100	8.1	10
25	447	47	48	218	122	203	77	200	21	141	7.7	9.5
26	347	59	47	184	118	161	62	167	16	111	10	8.6
27	192	57	49	150	116	152	50	168	13	91	18	8.2
28	167	48	42	115	126	158	34	175	11	70	21	7.8
29	132	48	36	90	143	130	28	131	33	41	24	8.6
30	110	67	33	111	------	102	25	77	191	47	34	13
31	99	------	32	143	------	121	------	66	------	56	29	------
TOTAL	5,779	1,447	1,975	4,759	8,363	3,066	2,642	4,923	1,242.7	6,015	745.4	1,674.8
MEAN	186	48.2	63.7	154	288	98.9	88.1	159	41.4	194	24.0	55.8
MAX	520	99	131	565	828	233	195	615	191	1,320	57	322
MIN	44	26	32	23	115	34	25	20	7.5	14	7.7	7.8
CFSM	2.92	.76	1.00	2.41	4.51	1.55	1.38	2.49	.65	3.04	.38	.87
IN.	3.37	.84	1.15	2.77	4.86	1.79	1.54	2.87	.72	3.51	.43	.98

CAL YR 1971 TOTAL 51,187.3 MEAN 140 MAX 3,970 MIN 4.6 CFSM 2.19 IN 29.85
WTR YR 1972 TOTAL 42,631.9 MEAN 116 MAX 1,320 MIN 7.5 CFSM 1.82 IN 24.86

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 4	0700	9.10	875	7-12	2400	10.30	1,380

02109500 Waccamaw River at Freeland, N. C.

LOCATION.--Lat 34°05'43", long 78°32'56", Brunswick County, on left bank 150 ft downstream from New Britton Bridge on State Highway 130, 1 miles southwest of Freeland, 7 miles downstream from Juniper Creek, and 117 miles upstream from mouth in Winyah Bay.

DRAINAGE AREA.--706 sq mi.

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 15.52 ft above mean sea level. Prior to July 15, 1943, non-recording gage 150 ft upstream at same datum. Auxiliary nonrecording gage 3.3 miles downstream from base gage Oct. 7, 1949 to July 14, 1952. Since July 15, 1952 auxiliary water-stage recorder at same site and datum.

AVERAGE DISCHARGE.--33 years, 685 cfs (13.18 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,390 cfs Feb. 4 (gage height, 14.83 ft); minimum, 33 cfs Sept. 30 (gage height, 1.74 ft).
Period of record: Maximum discharge, 10,200 cfs Sept. 25, 1955; maximum gage height, 16.63 ft Sept. 26, 1955; minimum discharge, 0.1 cfs Aug. 30, Sept. 9, 10, 28, Oct. 4-14, 1954.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1172: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	1,870	377	340	2,550	1,460	704	125	463	149	224	69
2	281	1,720	391	325	3,250	1,360	729	120	512	128	204	80
3	323	1,590	395	313	3,860	1,200	751	113	582	112	195	103
4	346	1,470	416	304	4,280	1,140	764	165	637	100	179	137
5	355	1,350	435	294	4,370	1,070	754	215	651	92	164	177
6	356	1,150	449	283	4,140	1,010	732	218	630	96	145	209
7	349	1,080	455	274	3,800	927	680	208	605	111	130	226
8	332	1,000	454	263	3,390	868	640	241	588	110	123	229
9	307	921	448	252	3,300	814	600	406	576	99	124	220
10	328	839	438	244	3,140	755	540	568	546	88	118	206
11	393	772	430	246	3,050	706	500	658	494	105	105	193
12	433	713	428	283	3,000	658	470	670	433	197	94	178
13	460	656	467	333	2,900	620	430	628	375	294	81	160
14	489	605	533	381	2,800	584	400	591	322	378	69	140
15	524	558	573	464	2,750	540	380	572	269	439	61	120
16	554	511	585	858	2,660	523	350	560	225	474	73	100
17	593	470	576	1,670	2,590	508	330	533	185	506	90	90
18	628	434	564	1,510	2,550	507	310	485	153	518	87	82
19	655	402	548	1,630	2,590	513	290	434	129	514	76	88
20	671	370	530	1,690	2,590	512	260	409	125	488	67	86
21	677	344	515	1,710	2,550	500	240	385	219	451	58	78
22	689	319	504	1,680	2,460	511	230	364	357	406	53	70
23	844	299	495	1,610	2,340	540	210	366	429	364	51	60
24	1,070	284	479	1,530	2,210	565	190	373	450	342	48	54
25	1,480	299	461	1,440	2,070	582	180	374	417	331	42	48
26	1,950	309	446	1,370	1,940	600	170	367	350	325	41	41
27	2,380	313	428	1,360	1,810	621	160	354	287	310	40	38
28	2,480	311	410	1,320	1,690	640	150	348	237	290	40	36
29	2,360	317	391	1,370	1,560	649	140	359	199	294	54	36
30	2,190	353	373	1,540	------	672	130	385	172	282	69	34
31	2,030	------	356	1,940	------	679	------	421	------	254	72	------
TOTAL	26,787	21,629	14,350	28,827	82,190	22,834	12,414	12,015	11,617	8,647	2,977	3,388
MEAN	864	721	463	930	2,834	737	414	388	387	279	96.0	113
MAX	2,480	1,870	585	1,940	4,370	1,460	764	670	651	518	224	229
MIN	260	284	356	244	1,560	500	130	113	125	88	40	34
CFSM	1.22	1.02	.66	1.32	4.01	1.04	.59	.55	.55	.40	.14	.16
IN.	1.41	1.14	.76	1.52	4.33	1.20	.65	.63	.61	.46	.16	.18

CAL YR 1971 TOTAL 386,166 MEAN 1,058 MAX 6,820 MIN 56 CFSM 1.50 IN 20.35
WTR YR 1972 TOTAL 247,675 MEAN 677 MAX 4,370 MIN 34 CFSM .96 IN 13.05

02111000 Yadkin River at Patterson, N. C.

LOCATION.--Lat 35°59'29", long 81°33'30", Caldwell County, on left bank 200 ft upstream from bridge on State Highway 268, 0.4 mile upstream from Warrior Creek, 0.5 mile south of Patterson, 2 miles downstream from Walnut Branch, and at mile 416.

DRAINAGE AREA.--29.0 sq mi.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 1,211.47 ft above mean sea level. Prior to Feb. 9, 1940 non-recording gage at present site, at datum 1.00 ft higher. Prior to Oct. 20, 1970 at datum 1.00 ft higher.

AVERAGE DISCHARGE.--33 years, 47.4 cfs (22.20 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,220 cfs June 21 (gage height, 5.04 ft); minimum, 16 cfs Aug. 22 (gage height, 1.02 ft); minimum daily, 18 cfs Sept. 16, 20-27.
Period of record: Maximum discharge, 16,200 cfs Aug. 13, 1940 (gage height, 12.70 ft, datum then in use), from rating curve extended above 1,400 cfs on basis of computation of peak flow over dam 1 mile upstream at gage heights 4.58, 6.60, 7.70, and 12.70 ft; minimum observed, 3.0 cfs May 15, 1940.

REMARKS.--Records good. Occasional slight regulation at low flow by paper mill and detention dam 1 mile upstream.

REVISIONS (WATER YEARS).--WSP 1303: 1940(m), 1947-48(M). WSP 1553: 1948(P). WSP 1723: Drainage area, 1951(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	72	43	37	43	52	71	42	60	50	46	21
2	35	144	40	40	45	52	67	41	57	61	62	20
3	30	236	42	39	55	60	62	259	55	56	46	20
4	28	152	43	52	50	51	60	170	52	49	38	20
5	27	106	44	51	44	50	56	107	51	58	37	42
6	29	86	79	45	45	48	55	84	49	48	33	31
7	26	72	205	43	45	48	60	72	50	46	32	24
8	25	63	131	41	41	48	67	89	45	44	31	22
9	33	58	90	44	40	44	54	86	45	42	29	21
10	34	54	75	62	40	44	53	71	44	41	30	20
11	27	50	66	113	39	43	52	65	42	41	31	20
12	25	48	60	90	44	43	78	60	41	39	30	20
13	24	45	57	132	91	43	65	62	41	40	28	19
14	24	43	53	200	66	44	61	224	39	38	27	19
15	24	41	55	115	61	42	56	151	38	38	27	19
16	105	40	52	85	57	56	54	114	39	40	32	18
17	41	39	49	75	57	57	51	93	52	43	27	19
18	33	38	45	66	59	49	49	83	60	38	29	20
19	31	37	44	62	56	45	46	95	46	36	30	19
20	30	36	53	58	51	44	46	139	273	34	26	18
21	36	36	48	59	50	52	52	369	648	32	26	18
22	119	35	44	64	53	152	74	166	194	32	24	18
23	189	34	42	61	52	82	62	137	125	32	24	18
24	289	43	42	58	52	66	55	111	96	32	24	18
25	164	42	41	55	52	63	52	96	78	31	24	18
26	109	38	40	51	59	61	49	82	69	30	24	18
27	83	42	39	50	55	60	46	74	62	29	24	18
28	67	43	38	50	53	57	45	69	60	32	24	19
29	58	52	37	48	52	59	43	66	57	39	22	45
30	53	49	41	46	------	60	43	76	55	64	21	48
31	68	------	41	45	------	71	------	67	------	49	21	------
TOTAL	1,899	1,874	1,779	2,037	1,507	1,745	1,684	3,420	2,623	1,284	929	670
MEAN	61.3	62.5	57.4	65.7	52.0	56.3	56.1	110	87.4	41.4	30.0	22.3
MAX	289	236	205	200	91	152	78	369	648	64	62	48
MIN	24	34	37	37	39	42	43	41	38	29	21	18
CFSM	2.11	2.16	1.98	2.27	1.79	1.94	1.93	3.79	3.01	1.43	1.03	.77
IN.	2.44	2.40	2.28	2.61	1.93	2.24	2.16	4.39	3.36	1.65	1.19	.86

CAL YR 1971 TOTAL 18,316 MEAN 50.2 MAX 289 MIN 19 CFSM 1.73 IN 23.50
WTR YR 1972 TOTAL 21,451 MEAN 58.6 MAX 648 MIN 18 CFSM 2.02 IN 27.52

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-24	0030	3.09	407	5-20	2400	4.11	764
5- 3	0730	3.29	467	6-21	0330	5.04	1,220

02111180 Elk Creek at Elkville, N. C.

LOCATION.--Lat 36°04'16", long 81°24'13", Wilkes County, on left bank 700 ft upstream from bridge on State Highway 268, in community of Elkville, and 3,400 ft upstream from mouth.

DRAINAGE AREA.--50.9 sq mi.

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,082.40 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 91.2 cfs (24.33 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,640 cfs June 21 (gage height, 5.54 ft); minimum, 29 cfs Sept. 20-23 (gage height, 1.00 ft).
Period of record: Maximum discharge, 8,660 cfs June 15, 1969 (gage height, 8.33 ft), from rating curve extended above 2,400 cfs on basis of contracted-opening measurement at gage height, 7.28 ft; minimum, 16 cfs Oct. 3, 1968 (gage height, 0.83 ft).
The flood of Aug. 13, 1940 reached a stage of about 22 ft (discharge, about 70,000 cfs, on basis of several contracted-opening and slope-area measurements). A discharge of 6.0 cfs was measured Sept. 19, 1956.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	173	93	75	86	101	139	82	97	81	73	38
2	75	450	85	81	85	103	135	80	94	91	120	36
3	62	706	88	78	101	118	124	312	90	91	75	36
4	57	324	87	95	98	101	117	301	86	79	65	36
5	55	212	89	97	86	98	107	195	83	103	60	98
6	57	169	137	86	89	93	102	153	81	79	57	64
7	52	153	508	82	90	93	103	131	81	75	59	49
8	48	127	311	80	83	91	122	143	76	71	58	46
9	59	115	199	84	81	85	98	144	76	69	52	40
10	69	109	163	114	80	83	96	121	74	68	53	38
11	54	100	140	193	80	82	95	110	73	68	54	36
12	51	96	123	196	85	82	151	101	68	66	54	36
13	48	91	116	268	211	82	140	102	68	68	54	36
14	47	86	106	426	163	83	129	571	68	62	52	34
15	46	83	106	216	138	80	119	308	66	62	49	34
16	107	80	102	160	124	87	112	207	74	79	54	32
17	65	80	96	143	119	109	106	169	82	92	49	34
18	58	77	89	130	117	91	97	152	115	72	51	38
19	55	76	85	121	113	86	95	162	83	58	52	36
20	54	75	87	113	100	82	93	183	728	59	49	31
21	67	72	90	116	98	86	104	410	1,930	57	48	29
22	298	70	84	129	105	322	137	243	392	56	47	29
23	490	69	80	128	102	180	135	221	210	55	46	29
24	1,070	84	80	119	104	137	124	189	163	53	46	31
25	378	83	80	114	104	124	112	166	138	51	44	31
26	220	77	80	105	117	115	104	146	123	53	46	31
27	165	85	78	102	113	113	97	132	112	48	47	31
28	139	90	76	108	110	107	91	123	107	51	47	36
29	120	108	74	98	106	107	90	117	105	67	42	118
30	110	106	77	95	------	111	86	125	94	97	40	95
31	138	------	82	90	------	132	------	113	------	96	38	------
TOTAL	4,386	4,226	3,701	4,042	3,088	3,374	3,360	5,712	5,637	2,187	1,681	1,288
MEAN	141	141	119	130	106	109	112	184	188	70.5	54.2	42.9
MAX	1,070	706	508	426	211	322	151	571	1,930	103	120	118
MIN	46	69	74	75	80	80	86	80	66	48	38	29
CFSM	2.77	2.77	2.34	2.55	2.08	2.14	2.20	3.61	3.69	1.39	1.06	.84
IN.	3.21	3.09	2.70	2.95	2.26	2.47	2.46	4.17	4.12	1.60	1.23	.94

CAL YR 1971 TOTAL 37,861 MEAN 104 MAX 1,070 MIN 35 CFSM 2.04 IN 27.67
WTR YR 1972 TOTAL 42,692 MEAN 117 MAX 1,930 MIN 29 CFSM 2.30 IN 31.19

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-24	0115	3.59	1,560	1-13	2345	2.70	850
11- 2	2115	3.57	1,550	5-14	0915	3.03	1,110
12- 7	1145	2.66	822	6-21	0515	5.54	3,640

02111500 Reddies River at North Wilkesboro, N. C.

LOCATION.--Lat 36°10'29", long 81°10'09", Wilkes County, on left bank 400 ft upstream from bridge on Secondary Road 1517, 1.2 miles northwest of North Wilkesboro, 1.4 miles upstream from North Wilkesboro municipal dam, and 2.3 miles upstream from mouth.

DRAINAGE AREA.--93.9 sq mi.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 978.62 ft above mean sea level.

AVERAGE DISCHARGE.--33 years, 135 cfs (19.59 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,960 cfs June 21 (gage height, 10.49 ft); minimum, 73 cfs Sept. 20, 22, 23 (gage height, 1.11 ft).
Period of record: Maximum discharge, 27,000 cfs Aug. 14, 1940 (gage height, 22.02 ft), from rating curve extended above 2,200 cfs on basis of computation of peak flow over dam; minimum, 22 cfs Aug. 17, 1954 (gage height, 0.63 ft).

REMARKS.--Records good. Slight diurnal fluctuation at low flow during growing season.

REVISIONS (WATER YEARS).--WSP 1433: 1944.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	237	166	129	147	163	208	139	164	191	161	82
2	139	395	152	145	150	172	207	137	161	183	217	81
3	111	526	155	136	176	198	188	382	155	183	141	79
4	107	329	155	152	170	169	178	381	152	178	125	79
5	106	249	160	153	151	164	168	247	148	220	122	181
6	116	217	236	139	155	157	164	208	145	178	119	114
7	103	199	588	135	156	155	170	185	150	170	163	94
8	99	183	357	131	146	154	228	209	141	168	138	89
9	126	174	246	137	144	147	178	211	141	163	116	95
10	158	168	214	175	142	146	170	179	139	163	114	86
11	116	160	202	215	141	144	167	166	136	159	113	84
12	108	155	185	194	148	144	302	163	132	163	113	84
13	103	151	179	357	387	141	246	166	130	163	107	82
14	102	147	168	533	235	144	207	725	130	152	103	80
15	98	144	167	261	199	139	191	460	127	159	102	80
16	167	143	163	203	183	165	179	329	137	159	99	79
17	124	139	157	199	182	188	166	261	181	161	103	79
18	118	137	150	181	181	155	159	245	209	152	109	84
19	111	136	147	175	177	149	157	241	155	155	105	79
20	116	134	162	169	159	144	155	266	866	148	99	76
21	130	130	153	184	161	145	164	355	2,620	137	96	76
22	273	127	145	193	168	436	218	261	534	136	95	76
23	674	125	140	191	164	229	197	309	354	134	93	76
24	1,050	151	141	177	165	193	172	253	285	127	91	78
25	539	155	138	168	164	183	161	222	254	127	90	79
26	331	147	137	162	185	177	155	197	231	126	90	76
27	243	157	135	162	174	174	150	185	218	121	92	80
28	202	164	133	165	167	168	146	179	209	127	89	96
29	181	189	130	157	164	170	145	176	225	150	85	389
30	168	187	133	154	------	170	141	183	199	174	82	206
31	208	------	138	149	------	209	------	183	------	189	82	------
TOTAL	6,345	5,655	5,632	5,781	5,041	5,392	5,437	7,803	8,828	4,916	3,454	3,019
MEAN	205	189	182	186	174	174	181	252	294	159	111	101
MAX	1,050	526	588	533	387	436	302	725	2,620	220	217	389
MIN	98	125	130	129	141	139	141	137	127	121	82	76
CFSM	2.18	2.01	1.94	1.98	1.85	1.85	1.93	2.68	3.13	1.69	1.18	1.08
IN.	2.51	2.24	2.23	2.29	2.00	2.14	2.15	3.09	3.50	1.95	1.37	1.20

CAL YR 1971 TOTAL 57,120 MEAN 156 MAX 1,050 MIN 68 CFSM 1.66 IN 22.63
WTR YR 1972 TOTAL 67,303 MEAN 184 MAX 2,620 MIN 76 CFSM 1.96 IN 26.66

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-21	0700	10.49	4,960				

02112000 Yadkin River at Wilkesboro, N. C.

LOCATION.--Lat 36°09'09", long 81°08'45", Wilkes County, on right bank 150 ft upstream from bridge on U. S. Highway 421A between North Wilkesboro and Wilkesboro, 150 ft downstream from Reddies River, 0.5 mile northeast of Wilkesboro, and 382 miles upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--493 sq mi.

PERIOD OF RECORD.--April 1903 to June 1909, October 1920 to current year. Prior to October 1928, published as "at North Wilkesboro".

GAGE.--Water-stage recorder. Datum of gage is 942.35 ft above mean sea level. Apr. 10, 1903 to June 30, 1909 and Oct. 17, 1920 to Apr. 10, 1929, nonrecording gage at site 1.2 miles downstream at different datum. Apr. 11, 1929 to Jan. 9, 1930, nonrecording gage at present site and datum. Datum used 1920-29 was about 1.2 ft lower than that used 1903-09.

AVERAGE DISCHARGE.--57 years (1903-8, 1920-72), 796 cfs (21.92 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 9,080 cfs June 21 (gage height, 12.31 ft); minimum, 148 cfs Oct. 13 (gage height, 1.51 ft); minimum daily, 226 cfs Oct. 13.
Period of record: Maximum discharge, 160,000 cfs Aug. 14, 1940 (gage height, 37.6 ft, from floodmarks), from rating curve extended above 20,000 cfs on basis of slope-area measurement of peak flow; minimum, 86 cfs Dec. 4, 1965; minimum daily, 110 cfs Sept. 18, 19, 1956.
Flood in July 1916 reached a stage of 34.5 ft (present site and datum), from floodmark (discharge, 116,000 cfs from rating curve extended as explained above).

REMARKS.--Records good. Flow regulated by W. Kerr Scott Reservoir 5.5 miles upstream since 1962 (see p. 143). Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1433: 1903-9, 1922, 1925-26(M), 1930, 1932, 1934, 1946-48(M), drainage area at former site.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	565	1,440	984	725	825	637	1,240	754	986	944	840	534
2	640	2,080	806	732	833	664	1,240	780	937	872	1,020	537
3	558	2,980	767	718	931	654	1,060	1,960	894	992	840	532
4	519	2,720	965	802	1,010	654	999	2,620	838	856	683	524
5	556	2,590	900	1,040	935	645	1,020	1,520	787	1,010	641	760
6	545	2,270	1,160	804	767	680	957	1,160	803	912	648	589
7	543	1,200	2,740	740	773	827	937	1,120	864	732	634	551
8	561	1,160	2,530	704	819	778	1,190	1,200	805	776	585	540
9	623	983	1,990	742	808	746	1,130	1,440	773	784	544	558
10	612	1,030	1,610	1,100	744	740	950	1,060	781	648	564	540
11	565	983	1,150	1,390	742	778	818	974	770	669	600	530
12	509	891	1,050	2,080	770	785	1,360	986	703	800	599	526
13	720	855	1,060	3,070	1,720	745	1,550	994	670	768	597	525
14	535	836	1,020	2,490	1,720	741	1,130	3,210	659	648	601	523
15	553	830	937	2,860	1,240	734	1,010	2,520	657	676	585	523
16	819	839	877	2,290	981	792	1,020	1,810	676	697	588	525
17	670	794	945	1,270	972	1,070	946	1,360	921	840	594	524
18	620	745	865	1,110	1,110	921	926	1,190	1,140	732	600	530
19	601	731	777	1,090	1,100	746	874	1,360	930	739	600	519
20	604	765	936	1,040	860	740	815	1,470	2,840	662	594	513
21	623	754	905	1,060	803	749	862	2,950	5,400	599	573	512
22	1,300	705	820	1,090	825	2,100	1,180	1,890	784	585	573	511
23	2,850	662	795	1,130	922	1,830	1,270	1,900	3,120	564	569	515
24	3,360	763	796	1,020	958	1,010	988	1,470	5,810	550	565	519
25	3,020	907	803	919	866	1,020	875	1,380	5,790	544	563	516
26	2,720	830	834	862	827	1,120	882	1,120	4,270	538	566	506
27	2,570	847	714	870	725	946	886	1,140	1,850	532	573	512
28	2,280	897	700	968	692	904	846	1,020	792	538	562	535
29	1,110	1,030	710	920	636	1,020	778	996	856	592	555	971
30	806	1,160	804	809	------	1,010	752	979	1,000	816	551	728
31	1,040	------	747	765	------	1,130	------	1,160	------	1,070	543	------
TOTAL	33,061	35,277	32,697	37,230	26,914	27,956	30,491	45,493	48,106	22,685	19,150	16,730
MEAN	1,067	1,176	1,055	1,201	928	902	1,016	1,468	1,604	732	618	558
MAX	3,360	2,980	2,740	3,070	1,720	2,100	1,550	3,210	5,810	1,070	1,020	971
MIN	226	662	700	704	636	637	752	754	657	532	543	506
(†)	+71	-6	-6	-79	+40	+50	-6	0	+3	-1	-44	-59
MEAN‡	1,138	1,170	1,049	1,122	968	952	1,010	1,468	1,607	731	574	499
CFSM‡	2.31	2.37	2.13	2.28	1.96	1.93	2.05	2.98	3.26	1.48	1.16	1.01
IN.‡	2.66	2.64	2.46	2.63	2.11	2.22	2.29	3.44	3.64	1.71	1.34	1.13

CAL YR 1971 TOTAL 327,200 MEAN 896 MAX 3,360 MIN 226 MEAN‡ 903 CFSM‡ 1.83 IN‡ 24.87
WTR YR 1972 TOTAL 375,810 MEAN 1,027 MAX 5,810 MIN 226 MEAN‡ 1,024 CFSM‡ 2.08 IN‡ 28.27

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir; furnished by Corps of Engineers.
‡ Adjusted for change in W. Kerr Scott Reservoir.

02112120 Roaring River near Roaring River, N. C.

LOCATION.--Lat 36°14'59", long 81°02'41", Wilkes County, on left bank at downstream end of old bridge pier, 800 ft upstream from bridge on Secondary Road 1990, 3.8 miles northeast of village of Roaring River, and 4.1 miles upstream from mouth.

DRAINAGE AREA.--122 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements water years, 1925, 1947, 1949-56, 1963. April 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 964.85 ft above mean sea level. Prior to May 1, 1964, non-recording gage on downstream side of bridge at same site and datum.

AVERAGE DISCHARGE.--8 years, 168 cfs (18.66 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,680 cfs June 21 (gage height, 10.85 ft); minimum, 82 cfs Sept. 4; minimum gage height, 1.45 ft Sept. 20.
Period of record: Maximum discharge, 13,200 cfs Sept. 21, 1971 (gage height, 17.32 ft), from rating curve extended as explained below; minimum, 53 cfs July 7, 8, 1964.
Flood of 1916 reached a stage of about 28 ft (estimated discharge, 37,000 cfs) and the flood of August 1940 about 24 ft (estimated discharge, 26,000 cfs), from stage information by local residents and rating curve extended above 2,400 cfs on basis of slope-area measurements at gage heights 10.83 ft, 14.40 ft, the Aug. 14, 1940 peak (discharge, 29,200 cfs) at the Gordon Cotton Mill dam 2.4 miles downstream, and step-backwater profile study. A discharge of 24.2 cfs was measured Sept. 18, 1956.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	329	231	176	192	204	258	198	224	204	185	91
2	260	494	217	195	195	224	271	195	214	195	211	91
3	194	835	217	185	234	254	244	385	208	188	176	89
4	182	492	224	211	221	217	234	460	201	192	149	87
5	177	385	231	211	195	211	224	305	198	254	146	239
6	191	340	271	192	198	198	217	268	192	185	141	141
7	168	312	604	182	201	198	234	248	198	179	146	117
8	161	288	424	176	188	195	302	291	185	173	149	112
9	217	275	329	185	185	185	241	319	185	167	130	119
10	292	265	291	251	182	182	231	261	185	167	130	110
11	199	251	281	315	179	179	224	241	179	167	130	105
12	181	241	258	278	192	179	385	231	173	170	130	105
13	171	234	251	588	448	176	315	231	170	167	146	102
14	166	227	238	696	295	179	281	715	170	158	124	100
15	160	224	238	361	254	170	261	480	167	161	119	100
16	269	211	234	285	234	204	248	371	167	161	117	98
17	198	204	224	281	241	244	231	322	182	271	119	98
18	184	201	211	244	238	195	221	295	285	221	124	105
19	176	198	204	234	231	185	214	302	198	167	119	98
20	175	198	224	227	208	179	214	305	696	158	117	93
21	181	192	211	254	208	182	224	436	2,870	149	112	93
22	207	185	198	241	214	632	308	322	588	144	110	93
23	689	185	192	244	208	326	271	428	392	146	107	93
24	840	227	195	231	211	268	244	336	312	144	105	98
25	750	238	192	214	208	251	227	291	278	138	102	100
26	472	221	188	208	244	244	217	258	251	135	105	93
27	372	227	185	204	224	234	211	241	234	130	107	100
28	325	234	182	211	211	231	208	231	244	138	102	119
29	284	271	179	201	204	227	204	227	268	198	96	265
30	268	271	182	198	------	221	201	281	214	254	93	217
31	286	------	188	192	------	271	------	258	------	221	91	------
TOTAL	8,581	8,455	7,494	7,871	6,443	7,045	7,365	9,732	10,028	5,502	3,938	3,470
MEAN	277	282	242	254	222	227	246	314	334	177	127	116
MAX	840	835	604	696	448	632	385	715	2,870	271	211	265
MIN	160	185	179	176	179	170	201	195	167	130	91	87
CFSM	2.27	2.31	1.98	2.08	1.82	1.86	2.02	2.57	2.74	1.45	1.04	.95
IN.	2.62	2.58	2.29	2.40	1.96	2.15	2.25	2.97	3.06	1.68	1.20	1.06

CAL YR 1971 TOTAL 80,535 MEAN 221 MAX 3,070 MIN 81 CFSM 1.81 IN 24.56
WTR YR 1972 TOTAL 85,924 MEAN 235 MAX 2,870 MIN 87 CFSM 1.93 IN 26.20

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-13	2130	6.53	2,520	6-21	0500	10.85	5,680

02112250 Yadkin River at Elkin, N. C.

LOCATION.--Lat 36°14'40", long 80°50'42", Yadkin County, on right bank at downstream side of bridge on U. S. Highway 21 at Elkin, 0.3 mile downstream from Elkin River and 362 miles upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--854 sq mi.

PERIOD OF RECORD.--April 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 866.03 ft above mean sea level. Prior to Aug. 28, 1964, non-recording gage on upstream side of bridge at same datum.

AVERAGE DISCHARGE.--8 years, 1,267 cfs (20.15 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 24,500 cfs June 21 (gage height, 22.64 ft); minimum, 616 cfs Oct. 13, 14 (gage height, 1.99 ft); minimum daily, 739 cfs Sept. 24.
Period of record: Maximum discharge, 24,700 cfs Aug. 10, 1970 (gage height, 23.52 ft); minimum, 338 cfs July 28, 29, 1966.
Flood of July 1916 reached a stage of 36.0 ft, from information by North Carolina State Highway Commission. Flood of August 1940 reached a stage of 37.5 ft. A discharge of 172 cfs was measured on Sept. 19, 1956.

REMARKS.--Records good. Considerable regulation by W. Kerr Scott Reservoir. (See p. 143).

[Cubic feet per second, water year October 1971 to September 1972]

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,[illegible]50	2,[illegible]00	1,[illegible]90	1,[illegible]30	1,[illegible]00	1,[illegible]70	1,[illegible]60	1,[illegible]30	1,[illegible]50	1,490	1,340	785
2	1,[illegible]40	2,[illegible]40	1,[illegible]10	1,[illegible]30	1,[illegible]00	1,[illegible]30	1,[illegible]70	1,[illegible]10	1,[illegible]40	1,[illegible]90	1,420	780
3	1,[illegible]40	[illegible],[illegible]30	1,[illegible]90	1,[illegible]20	1,700	1,[illegible]30	1,[illegible]20	2,[illegible]20	1,[illegible]10	1,390	1,360	775
4	1,[illegible]50	[illegible],[illegible]10	1,[illegible]40	1,[illegible]20	[illegible],[illegible]00	1,[illegible]30	1,[illegible]00	4,[illegible]30	1,[illegible]30	1,[illegible]30	1,140	781
5	1,[illegible]20	[illegible],[illegible]60	1,[illegible]50	1,[illegible]30	1,[illegible]00	1,[illegible]30	1,[illegible]60	[illegible],[illegible]30	1,[illegible]30	1,500	970	1,260
6	1,[illegible]60	[illegible],[illegible]30	1,[illegible]30	1,[illegible]30	1,[illegible]00	1,[illegible]70	1,[illegible]50	1,[illegible]10	1,[illegible]60	1,420	1,050	1,100
7	1,[illegible]10	[illegible],[illegible]10	[illegible],[illegible]30	1,[illegible]70	1,[illegible]00	1,[illegible]30	1,[illegible]30	1,[illegible]70	1,330	1,240	1,020	875
8	9[illegible]5	1,[illegible]30	[illegible],[illegible]20	1,[illegible]20	1,[illegible]00	1,[illegible]30	1,[illegible]70	1,[illegible]40	1,[illegible]30	1,150	1,130	845
9	1,040	1,[illegible]70	[illegible],[illegible]40	1,[illegible]10	1,[illegible]00	1,[illegible]30	1,[illegible]70	[illegible],[illegible]70	1,230	1,260	950	860
10	1,[illegible]50	1,[illegible]50	[illegible],[illegible]50	1,[illegible]20	1,[illegible]00	1,[illegible]20	1,[illegible]50	1,[illegible]50	1,230	1,120	930	850
11	1,[illegible]20	1,[illegible]30	1,[illegible]40	[illegible],[illegible]30	1,[illegible]00	1,[illegible]30	1,[illegible]50	1,[illegible]50	1,220	1,090	860	815
12	1,[illegible]50	1,[illegible]30	1,[illegible]70	2,[illegible]40	1,[illegible]00	1,[illegible]30	[illegible],[illegible]20	1,[illegible]60	1,160	1,150	895	810
13	781	1,[illegible]20	1,[illegible]70	4,[illegible]00	[illegible],[illegible]50	1,[illegible]30	[illegible],[illegible]30	1,[illegible]20	1,120	1,250	1,140	805
14	778	1,[illegible]30	1,[illegible]20	[illegible],[illegible]20	[illegible],[illegible]00	1,[illegible]20	[illegible],[illegible]30	4,760	1,090	1,110	930	790
15	975	1,[illegible]70	1,[illegible]50	[illegible],[illegible]40	[illegible],[illegible]00	1,[illegible]00	1,[illegible]70	[illegible],[illegible]50	1,060	1,100	895	785
16	1,670	1,[illegible]70	1,[illegible]00	[illegible],[illegible]60	1,720	1,[illegible]40	[illegible],[illegible]60	[illegible],[illegible]30	1,000	1,110	890	780
17	1,310	1,[illegible]40	1,[illegible]80	[illegible],[illegible]40	1,[illegible]10	1,[illegible]50	1,[illegible]10	[illegible],[illegible]00	1,200	1,220	895	780
18	1,[illegible]30	1,[illegible]20	1,[illegible]70	1,[illegible]20	1,710	1,[illegible]50	1,510	1,[illegible]60	1,940	1,[illegible]50	885	805
19	1,[illegible]90	1,[illegible]60	1,[illegible]30	1,[illegible]30	1,[illegible]30	1,[illegible]30	[illegible],[illegible]60	1,440	1,170	890	785
20	1,[illegible]20	1,[illegible]20	1,[illegible]40	1,[illegible]40	1,550	1,[illegible]30	1,[illegible]40	2,100	[illegible],[illegible]60	1,110	905	761
21	1,[illegible]40	1,[illegible]30	1,[illegible]40	1,750	1,[illegible]10	1,[illegible]30	1,[illegible]10	[illegible],[illegible]90	20,[illegible]00	1,010	845	752
22	1,[illegible]30	1,[illegible]20	1,[illegible]30	1,740	1,[illegible]40	[illegible],[illegible]30	1,[illegible]00	[illegible],[illegible]20	[illegible],[illegible]30	1,000	850	752
23	5,[illegible]00	1,[illegible]10	1,[illegible]20	1,790	1,[illegible]60	[illegible],[illegible]60	[illegible],[illegible]40	[illegible],[illegible]60	2,320	985	830	752
24	7,[illegible]00	1,[illegible]70	1,[illegible]10	1,730	1,590	1,[illegible]50	1,760	2,[illegible]50	[illegible],[illegible]70	1,040	825	739
25	6,000	1,[illegible]70	[illegible],[illegible]30	1,[illegible]50	1,[illegible]40	1,[illegible]30	1,[illegible]20	2,[illegible]40	[illegible],[illegible]60	975	825	775
26	4,[illegible]50	1,[illegible]30	1,[illegible]30	1,[illegible]20	1,[illegible]60	1,790	1,[illegible]20	1,[illegible]70	[illegible],[illegible]70	945	800	761
27	3,[illegible]00	1,[illegible]30	1,[illegible]70	1,[illegible]20	1,[illegible]40	1,[illegible]70	1,[illegible]20	1,700	[illegible],[illegible]20	920	850	805
28	3,[illegible]20	1,[illegible]70	1,[illegible]40	1,[illegible]40	1,[illegible]30	1,[illegible]30	1,[illegible]10	1,[illegible]60	1,[illegible]30	940	845	910
29	2,[illegible]50	1,[illegible]50	1,[illegible]00	1,[illegible]80	1,310	1,[illegible]60	1,[illegible]70	1,550	1,530	1,040	810	1,580
30	1,[illegible]30	1,[illegible]20	1,[illegible]90	1,[illegible]40	------	1,700	1,[illegible]20	1,620	1,540	1,150	795	1,580
31	1,[illegible]60	------	1,[illegible]90	1,[illegible]60	------	1,[illegible]60	------	1,[illegible]70	------	1,490	795	------
TOTAL	60,117	[illegible],[illegible]50	[illegible],[illegible]30	[illegible],[illegible]80	47,540	[illegible],[illegible]60	50,510	[illegible],[illegible]70	80,270	[illegible],[illegible]45	29,585	26,213
MEAN	1,939	1,[illegible]85	1,[illegible]11	1,[illegible]64	1,[illegible]39	1,[illegible]73	1,[illegible]84	2,344	2,676	1,179	954	874
MAX	7,[illegible]30	[illegible],[illegible]90	[illegible],[illegible]10	[illegible],[illegible]50	3,000	3,[illegible]40	[illegible],[illegible]30	[illegible],[illegible]30	20,300	1,500	1,420	1,580
MIN	741	1,[illegible]70	1,[illegible]20	1,[illegible]20	1,300	1,[illegible]70	1,[illegible]20	1,310	1,000	920	795	739
MEAN‡	2,010	1,879	1,705	1,885	1,679	1,623	1,678	2,344	2,679	1,178	910	815
CFSM‡	2.35	2.20	2.00	2.21	1.97	1.90	1.96	2.74	3.14	1.38	1.07	.95
IN.‡	2.71	2.46	2.31	2.55	2.12	2.19	2.19	3.16	3.50	1.59	1.23	1.06

CAL YR 1971 TOTAL 540,996 MEAN 1,482 MAX 10,700 MIN 541 MEAN‡ 1,489 CFSM‡ 1.74 IN‡ 23.65
WTR YR 1972 TOTAL 622,670 MEAN 1,701 MAX 20,300 MIN 739 MEAN‡ 1,698 CFSM‡ 1.99 IN‡ 27.07

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir; furnished by Corps of Engineers.
‡ Adjusted for change in W. Kerr Scott Reservoir.

02112360 Mitchell River near State Road, N. C.

LOCATION.--Lat 36°18'58", long 80°48'36", Surry County, on right bank 18 ft upstream from bridge on Secondary Road 1001, 1.8 miles upstream from Grass Creek, and 3.3 miles east of State Road.

DRAINAGE AREA.--80.4 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1952-58, 1963. April 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 927.12 ft above mean sea level. Prior to Aug. 29, 1964, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--8 years, 116 cfs (19.60 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,700 cfs June 21 (gage height, 8.95 ft); minimum, 63 cfs Sept. 23, 24 (gage height, 2.02 ft).
Period of record: Maximum discharge, 6,450 cfs Aug. 30, 1964 (gage height, 14.85 ft); minimum, 35 cfs Aug. 17, 19, 1967; minimum gage height, 1.73 ft July 28, 29, 1966.
Maximum stage known since at least 1900, about 18 ft in August 1940, from information by local resident (estimated discharge, 9,000 cfs). A discharge of 16.5 cfs was measured on Sept. 19, 1956.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	213	166	122	129	138	151	124	144	151	138	78
2	216	275	159	130	133	159	156	123	136	144	159	77
3	141	769	158	126	160	157	143	259	133	142	136	75
4	126	360	160	138	157	143	140	376	131	139	123	75
5	119	271	163	140	135	137	134	193	130	196	140	155
6	121	242	171	128	134	132	131	168	125	146	123	109
7	109	224	379	123	137	131	137	158	130	135	118	93
8	103	204	262	120	130	131	182	185	122	132	120	85
9	128	195	214	123	127	127	143	200	122	130	109	84
10	190	190	193	160	124	126	136	163	120	128	107	81
11	134	181	187	177	122	122	134	151	117	123	105	77
12	119	177	174	162	128	122	263	145	116	134	106	77
13	115	171	168	303	327	122	196	144	113	133	233	77
14	108	165	161	447	194	122	173	506	112	126	115	75
15	105	163	161	220	167	119	162	353	110	153	102	76
16	186	161	158	176	156	130	155	245	111	142	98	75
17	137	161	151	174	158	146	146	209	120	158	96	74
18	122	161	141	159	160	129	140	227	194	155	96	75
19	116	161	136	156	157	123	136	207	135	143	92	75
20	110	160	147	151	144	120	136	195	438	129	89	69
21	118	155	144	147	139	122	138	423	2,030	120	85	69
22	125	148	135	162	143	330	189	225	422	118	81	69
23	868	146	131	162	138	182	169	253	264	117	80	67
24	1,090	178	131	154	138	156	151	203	219	110	78	69
25	891	180	131	147	139	148	144	183	195	108	74	71
26	436	165	131	139	161	146	137	168	181	107	76	69
27	304	172	130	138	150	145	134	158	168	111	80	70
28	254	176	129	143	145	141	130	155	163	136	83	79
29	225	193	127	135	141	138	130	150	179	140	83	162
30	208	187	128	133	------	137	130	158	159	182	78	162
31	209	------	130	131	------	160	------	161	------	168	77	------
TOTAL	7,353	6,304	5,055	5,046	4,373	4,441	4,546	6,568	6,839	4,256	3,280	2,549
MEAN	237	210	163	163	151	143	152	212	228	137	106	85.0
MAX	1,090	769	379	447	327	330	263	506	2,030	196	233	162
MIN	103	146	127	120	122	119	130	123	110	107	74	67
CFSM	2.95	2.61	2.03	2.03	1.89	1.78	1.89	2.64	2.84	1.70	1.32	1.06
IN.	3.40	2.92	2.34	2.33	2.02	2.05	2.10	3.04	3.16	1.97	1.52	1.18

CAL YR 1971 TOTAL 55,503 MEAN 152 MAX 1,700 MIN 54 CFSM 1.89 IN 25.68
WTR YR 1972 TOTAL 60,610 MEAN 166 MAX 2,030 MIN 67 CFSM 2.06 IN 28.04

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	2000	6.83	2,560	6-21	0630	8.95	3,700
10-25	0730	5.23	1,600				

02113000 Fisher River near Copeland, N. C.

LOCATION.--Lat 36°20'27", long 80°40'20", Surry County, on left bank 500 ft upstream from bridge on State Highway 268, 1 mile upstream from Cody Creek, and 2 miles northwest of Copeland.

DRAINAGE AREA.--121 sq mi.

PERIOD OF RECORD.--October 1931 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 913 ft (by barometer). Prior to Sept. 5, 1936, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--41 years, 177 cfs (19.87 inches per year).

EXTREMES.--Current year: Maximum discharge, 10,200 cfs June 21 (gage height, 13.50 ft); minimum, 68 cfs Sept. 20, 23 (gage height, 2.18 ft).
Period of record: Maximum discharge, 27,300 cfs Aug. 14, 1940 (gage height, 18.4 ft, from floodmarks), from rating curve extended above 6,200 cfs on basis of slope-area measurement of peak flow; minimum, 14 cfs Aug. 28, 1956.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1303: 1933(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	321	197	151	160	183	227	168	192	199	232	82
2	298	607	183	160	167	217	235	166	180	185	273	82
3	169	1,950	181	156	250	220	205	500	175	179	175	80
4	145	596	186	163	257	195	195	808	168	180	161	80
5	138	407	192	175	189	185	185	316	164	345	210	207
6	143	336	190	157	185	175	180	247	159	219	148	148
7	129	295	566	152	183	174	191	221	167	195	143	104
8	120	260	407	149	169	172	379	269	154	191	138	95
9	145	244	281	150	164	165	222	336	153	185	128	94
10	343	232	246	196	161	163	203	231	154	164	124	89
11	181	218	241	235	159	161	197	207	148	163	121	85
12	152	210	217	221	164	161	592	197	142	178	123	85
13	139	204	211	474	608	159	354	191	139	185	120	84
14	132	195	198	970	322	162	274	931	134	162	112	80
15	127	190	196	342	246	155	244	665	134	179	109	78
16	318	186	199	241	222	166	225	376	130	174	108	78
17	189	182	187	240	221	216	220	288	140	213	112	77
18	157	178	180	225	227	172	200	250	341	171	109	79
19	145	175	175	198	226	163	192	251	180	209	107	78
20	136	172	181	192	194	157	189	240	462	165	102	71
21	140	167	180	225	191	160	192	665	4,920	153	96	72
22	141	157	172	212	195	676	293	361	757	149	94	72
23	1,460	155	166	214	188	305	261	333	438	145	93	71
24	1,780	196	165	198	191	236	213	267	340	136	91	75
25	998	233	166	189	190	215	199	236	291	130	88	77
26	520	205	161	179	222	208	190	216	253	128	88	74
27	372	201	158	176	215	199	182	204	230	129	92	74
28	303	212	157	182	197	192	178	198	218	141	106	82
29	259	229	154	175	189	190	176	194	240	150	89	288
30	233	239	153	172	------	189	172	199	213	288	84	373
31	246	------	157	165	------	246	------	233	------	197	82	------
TOTAL	9,896	9,152	6,403	7,034	6,252	6,331	6,965	9,964	11,521	5,587	3,858	3,114
MEAN	319	305	207	227	216	204	232	321	384	180	124	104
MAX	1,780	1,950	566	970	608	670	592	931	4,920	345	273	373
MIN	120	155	153	149	159	155	172	166	130	128	82	71
CFSM	2.64	2.52	1.71	1.88	1.79	1.69	1.92	2.65	3.17	1.49	1.02	.86
IN.	3.04	2.81	1.97	2.16	1.92	1.95	2.14	3.06	3.54	1.72	1.19	.96

CAL YR 1971 TOTAL 74,743 MEAN 205 MAX 1,950 MIN 63 CFSM 1.69 IN 22.98
WTR YR 1972 TOTAL 86,077 MEAN 235 MAX 4,920 MIN 71 CFSM 1.94 IN 26.46

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	2230	9.21	4,660	1-13	2400	6.86	2,780
11- 2	2330	8.47	4,070	6-21	0830	13.50	10,200

02113850 Ararat River at Ararat, N. C.

LOCATION.--Lat 36°24'16", long 80°33'43", Surry County, on right bank at upstream side of bridge pier on Secondary Road 2019, at Ararat, and 300 ft downstream from Flat Shoal Creek.

DRAINAGE AREA.--231 sq mi.

PERIOD OF RECORD.--April 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 880.97 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 264 cfs (15.53 inches per year).

EXTREMES.--Current year: Maximum discharge, 10,800 cfs June 21 (gage height, 14.72 ft); minimum, 132 cfs Sept. 20, 23, 26 (gage height, 1.06 ft); minimum daily, 138 cfs Sept. 20, 23.
Period of record: Maximum discharge, 10,800 cfs June 21, 1972 (gage height, 14.72 ft); minimum, 20 cfs Aug. 17, 18, Oct. 7, 8, 1966 (gage height, 0.65 ft); minimum daily, 56 cfs, July 28, 1966.
Maximum stage known since at least 1904, 21.4 ft June 14, 1947 (result of failure of dams upstream, discharge about 31,000 cfs), from information by local residents.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	233	410	327	260	300	377	356	297	320	342	410	155
2	360	925	311	280	443	399	366	277	287	324	455	148
3	233	2,990	305	280	459	371	329	781	284	323	804	146
4	211	949	316	290	349	333	326	1,140	275	330	474	148
5	206	590	311	300	344	322	308	460	269	1,320	551	404
6	223	484	305	280	316	311	303	370	259	536	335	267
7	201	426	810	265	305	311	310	342	270	389	308	188
8	186	382	569	265	305	305	645	417	256	344	345	174
9	228	355	421	267	300	278	382	532	249	319	282	172
10	536	355	399	355	300	300	349	390	252	306	263	166
11	300	333	404	426	590	297	338	352	246	295	253	160
12	245	322	371	377	437	298	908	407	236	315	249	156
13	228	316	360	907	382	298	509	317	231	304	258	157
14	217	305	344	1,910	370	303	434	1,410	236	295	232	146
15	206	300	344	580	350	289	393	1,080	230	292	223	146
16	432	300	333	421	340	313	358	573	228	306	222	153
17	305	289	322	404	371	397	374	465	233	336	214	151
18	256	283	300	377	388	313	333	420	456	346	206	158
19	261	283	294	360	366	296	310	418	296	350	197	152
20	256	278	311	349	338	290	305	395	588	379	199	138
21	256	272	305	421	338	295	361	402	6,600	297	184	141
22	261	261	289	371	344	952	514	389	1,020	280	181	141
23	834	256	278	360	338	446	455	398	580	277	176	138
24	1,190	316	283	338	344	371	389	363	511	239	173	144
25	3,020	371	283	322	366	344	365	342	463	234	168	149
26	685	322	278	311	415	340	371	324	423	227	166	140
27	487	316	270	322	366	329	355	312	392	222	167	142
28	404	322	260	322	355	322	343	305	377	237	344	211
29	360	360	265	305	338	323	338	304	478	288	189	1,090
30	333	410	265	300	------	321	304	303	379	429	157	957
31	327	------	265	289	------	392	------	449	------	323	153	------
TOTAL	13,480	14,081	10,498	12,614	10,557	10,836	11,731	14,734	16,924	10,804	8,538	6,738
MEAN	435	469	339	407	364	350	391	475	564	349	275	225
MAX	3,020	2,990	810	1,910	590	952	908	1,410	6,600	1,320	804	1,090
MIN	186	256	260	260	300	278	303	277	228	222	153	138
CFSM	1.88	2.03	1.47	1.76	1.58	1.52	1.69	2.06	2.44	1.51	1.19	.97
IN.	2.17	2.27	1.69	2.03	1.70	1.75	1.89	2.37	2.73	1.74	1.37	1.09

CAL YR 1971 TOTAL 119,192 MEAN 327 MAX 3,020 MIN 128 CFSM 1.42 IN 19.19
WTR YR 1972 TOTAL 141,535 MEAN 387 MAX 6,600 MIN 138 CFSM 1.68 IN 22.79

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-25	0415	11.06	6,620	1-14	0015	7.47	4,030
11- 2	2215	7.77	4,240	6-21	0815	14.72	10,800

02114450 Little Yadkin River at Dalton, N. C.

LOCATION.--Lat 36°17'56", long 80°24'53", Stokes County, on left bank 1,200 ft downstream from bridge on U. S. Highway 52, 1.0 mile southwest of Dalton, 1.3 miles downstream from Southern Railway bridge, and 2.0 miles downstream from Danbury Creek.

DRAINAGE AREA.--42.8 sq mi.

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 813.7 ft above mean sea level (North Carolina State Highway Commission bench mark).

AVERAGE DISCHARGE.--12 years, 43.0 cfs (13.65 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,290 cfs June 21 (gage height, 18.81 ft), from rating curve extended as explained below; minimum, 11 cfs Sept. 23, 27 (gage height, 0.51 ft).
Period of record: Maximum discharge, 8,290 cfs June 21, 1972 (gage height, 18.81 ft), from rating curve extended above 2,700 cfs on basis of slope-area measurement at gage height 17.86 ft; minimum, 1.4 cfs July 29, 1966.

REMARKS.--Records good.

REVISIONS.--WSP 2104: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	32	36	27	32	40	71	34	36	34	39	12
2	91	38	33	30	37	75	81	33	33	33	34	13
3	29	334	32	28	239	64	57	300	32	31	27	12
4	22	86	33	32	120	49	49	533	31	30	23	12
5	20	56	32	33	61	44	44	84	30	50	24	97
6	24	48	32	30	52	40	42	58	30	36	22	28
7	19	47	292	28	48	39	48	50	30	31	22	19
8	17	42	110	27	43	41	181	78	28	29	22	17
9	24	29	65	30	41	37	61	86	28	28	19	16
10	64	30	52	66	40	36	51	51	27	27	19	16
11	32	28	45	153	39	34	47	46	26	27	19	15
12	24	28	39	81	40	34	198	42	26	32	19	15
13	22	27	37	380	130	34	83	39	25	33	19	15
14	21	26	35	330	65	35	65	863	25	27	17	14
15	20	25	34	95	46	33	60	660	24	25	16	14
16	127	26	34	59	43	44	63	166	23	25	16	13
17	42	25	33	56	48	60	50	85	23	25	17	13
18	30	25	30	51	49	45	46	67	49	31	16	14
19	26	25	30	42	52	35	42	60	30	26	16	13
20	25	25	34	40	43	34	41	55	94	23	21	12
21	26	24	32	59	42	36	39	52	3,350	22	16	12
22	27	24	30	49	44	341	112	49	180	21	15	13
23	448	23	29	47	42	77	75	51	85	21	14	12
24	236	45	29	42	43	53	54	43	61	19	14	13
25	1,220	47	29	39	42	49	45	41	51	19	13	13
26	120	41	29	37	57	47	42	39	44	19	13	12
27	66	48	28	37	54	46	39	36	40	20	13	12
28	47	45	28	37	46	43	37	35	43	26	14	14
29	40	46	28	36	42	43	36	36	43	24	13	176
30	35	46	29	35	------	42	35	41	37	34	12	436
31	33	------	28	33	------	92	------	62	------	46	12	------
TOTAL	3,023	1,391	1,387	2,069	1,680	1,722	1,894	3,875	4,584	874	576	1,093
MEAN	97.5	46.4	44.7	66.7	57.9	55.5	63.1	125	153	28.2	18.6	36.4
MAX	1,220	334	292	380	239	341	198	863	3,350	50	39	436
MIN	17	23	28	27	32	33	35	33	23	19	12	12
CFSM	2.28	1.08	1.04	1.56	1.35	1.30	1.47	2.92	3.57	.66	.43	.85
IN.	2.63	1.21	1.21	1.80	1.46	1.50	1.65	3.37	3.98	.76	.50	.95

CAL YR 1971 TOTAL 18,799 MEAN 51.5 MAX 1,220 MIN 11 CFSM 1.20 IN 16.34
WTR YR 1972 TOTAL 24,168 MEAN 66.0 MAX 3,350 MIN 12 CFSM 1.54 IN 21.01

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-25	0630	11.57	4,300	5-15	1330	5.90	1,920
1-13	2200	5.54	1,790	6-21	1200	18.81	8,290
5- 4	0030	6.34	2,090	9-30	0730	6.94	2,330
5-14	0930	10.00	3,600				

02115360 Yadkin River at Enon, N. C.

LOCATION.--Lat 36°07'55", long 80°26'39", Forsyth County, on left bank 100 ft upstream from bridge on Secondary Road 1525 (revised), 1.5 miles east of Enon, 4 miles upstream from Forbush Creek, and 324 miles upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--1,680 sq mi, approximately.

PERIOD OF RECORD.--July 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 701.71 ft above mean sea level, unadjusted. Prior to Nov. 6, 1968, nonrecording gage on downstream side of bridge at same site and datum.

AVERAGE DISCHARGE.--8 years, 2,262 cfs (18.29 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 73,300 cfs June 21 (gage height, 27.83 ft); minimum, 1,250 cfs Sept. 23, 24 (gage height, 3.39 ft); minimum daily, 1,260 cfs Sept. 23.
Period of record: Maximum discharge, 73,300 cfs June 21, 1972 (gage height, 27.83 ft); minimum observed, 625 cfs Aug. 17, 1967; minimum gage height, observed, 2.29 ft July 28, 1966.
Flood of Aug. 15, 1940 reached a stage of 737.5 ft msl (35.8 ft, gage datum), from information by Corps of Engineers.
REVISIONS.--The maximum discharge for the water year 1970 has been revised to 71,900 cfs Aug. 10, 1970 (gage height, 27.69 ft), superseding figure published in WRD N. C. 1970.

REMARKS.--Records good. Some regulation by W. Kerr Scott Reservoir. (See p. 143).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,870	3,260	2,960	2,160	2,320	2,470	3,710	2,390	3,130	2,960	2,810	1,370
2	2,800	3,820	2,600	2,160	2,440	2,810	3,640	2,360	2,690	2,830	3,250	1,370
3	2,460	14,300	2,380	2,220	3,390	2,900	3,370	4,210	2,590	2,710	3,300	1,380
4	1,950	9,060	2,380	2,180	4,390	2,760	3,040	11,500	2,500	2,710	2,500	1,350
5	1,870	6,070	2,570	2,500	3,090	2,540	2,890	5,900	2,410	4,010	2,720	2,050
6	1,850	5,360	2,540	2,590	2,780	2,420	2,850	3,970	2,300	3,710	2,200	2,840
7	1,820	4,600	5,750	2,250	2,610	2,400	2,760	3,330	2,350	2,890	2,220	1,700
8	1,680	3,400	8,050	2,130	2,510	2,570	4,540	3,350	2,350	2,530	2,360	1,530
9	1,680	3,230	5,100	2,080	2,450	2,460	3,670	4,680	2,270	2,490	2,050	1,480
10	2,930	2,980	4,290	2,590	2,400	2,360	3,180	3,820	2,300	2,460	1,860	1,490
11	2,560	2,940	3,750	3,630	2,320	2,340	2,920	3,100	2,230	2,320	1,800	1,410
12	1,990	2,830	3,200	4,400	2,320	2,360	4,850	2,980	2,120	2,310	1,790	1,400
13	1,840	2,680	3,020	4,960	4,620	2,390	5,620	2,880	2,030	2,610	2,130	1,400
14	1,480	2,610	2,920	16,100	5,250	2,370	4,240	11,300	2,020	2,430	1,920	1,370
15	1,700	2,530	2,830	6,450	4,000	2,320	3,530	12,900	1,990	2,240	1,770	1,350
16	3,400	2,500	2,800	5,670	3,330	2,350	3,400	7,410	1,960	2,280	1,710	1,350
17	3,300	2,460	2,680	4,120	3,000	2,980	3,170	4,810	1,960	2,460	1,700	1,340
18	2,300	2,380	2,640	3,360	3,110	2,950	2,920	3,860	3,220	2,740	1,710	1,350
19	2,050	2,320	2,460	3,070	3,270	2,610	2,810	3,690	3,100	2,520	1,690	1,390
20	1,930	2,280	2,450	3,000	3,040	2,370	2,710	3,810	3,130	2,440	1,690	1,310
21	1,910	2,260	2,680	3,170	2,680	2,360	2,680	4,650	46,400	2,200	1,610	1,280
22	1,950	2,170	2,530	3,290	2,650	6,540	3,200	5,980	24,400	2,050	1,550	1,280
23	7,640	2,090	2,350	3,210	2,670	5,790	4,390	4,630	4,930	2,010	1,550	1,260
24	19,900	2,230	2,310	3,170	2,760	4,040	3,510	4,630	6,820	2,050	1,520	1,270
25	23,800	2,840	2,320	2,910	2,810	3,080	3,050	3,750	8,230	1,950	1,470	1,300
26	8,590	2,800	2,310	2,690	2,920	3,030	2,840	3,430	8,140	1,870	1,470	1,310
27	6,040	2,620	2,330	2,570	3,240	3,060	2,700	3,050	5,680	1,830	1,480	1,290
28	5,270	2,760	2,190	2,620	2,760	2,830	2,670	3,010	3,550	2,070	1,750	1,460
29	4,510	2,770	2,160	2,680	2,620	2,760	2,630	2,850	3,120	2,170	1,570	4,580
30	3,200	3,290	2,140	2,570	------	2,940	2,500	2,830	3,120	2,620	1,460	6,520
31	2,810	------	2,280	2,420	------	3,310	------	3,130	------	2,880	1,390	------
TOTAL	129,080	107,440	92,970	109,120	87,750	90,470	99,990	144,190	163,040	77,350	60,000	51,780
MEAN	4,164	3,581	2,999	3,520	3,026	2,918	3,333	4,651	5,435	2,495	1,935	1,726
MAX	23,800	14,300	8,050	16,100	5,250	6,540	5,620	12,900	46,400	4,010	3,300	6,520
MIN	1,480	2,090	2,140	2,080	2,320	2,320	2,500	2,360	1,960	1,830	1,390	1,260
(†)	+71	-6	-6	-79	+40	+50	-6	0	+3	-1	-44	-59

CAL YR 1971 TOTAL 1,024,630 MEAN 2,807 MAX 23,800 MIN 1,180 MEAN‡ 2,814 CFSM‡ 1.68 IN‡ 22.74
WTR YR 1972 TOTAL 1,213,180 MEAN 3,315 MAX 46,400 MIN 1,260 MEAN‡ 3,312 CFSM‡ 1.97 IN‡ 26.83

† Change in contents, equivalent in cubic feet per second W. Kerr Scott Reservoir; furnished by Corps of Engineers.

‡ Adjusted for change in contents in W. Kerr Scott Reservoir.

02115856 Salem Creek near Atwood, N. C.

LOCATION.--Lat 36°02'16", long 80°18'18", Forsyth County, on left bank 5 ft upstream from bridge at Winston-Salem Elledge Wastewater Treatment Plant, 2,700 ft upstream from effluent outfall, 4,100 ft upstream from bridge on Secondary Road 1120, 1.4 miles southeast of Atwood, and 3.4 miles upstream from mouth.

DRAINAGE AREA.--64.4 sq mi.

PERIOD OF RECORD.--May 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 693.97 ft above mean sea level.

EXTREMES.--May to September 1971: Maximum discharge during period, 3,620 cfs May 13 (gage height, 16.30 ft); minimum, 14 cfs Aug. 21, Sept. 30 (gage height, 0.69 ft).
Water year 1972: Maximum discharge, 3,580 cfs June 21 (gage height, 16.20 ft); minimum, 16 cfs Oct. 1 (gage height, 0.72 ft); minimum daily, 19 cfs Oct. 14.

REMARKS.--Records fair. Flow regulated by Salem Lake in the headwaters. The city of Winston-Salem diverted an average of 22.1 cfs from Salem Lake for water supply. Diurnal fluctuation at low flow caused by filtration plant and industry. Creek channel improved by dredging in 1916, 1934-35, 1961, 1967.

Discharge, in cubic feet per second, May to September 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								27	56	30	49	20
2								26	49	28	87	22
3								28	46	27	31	20
4								28	43	23	25	21
5								28	42	22	28	22
6								36	41	43	26	18
7								59	40	86	25	24
8								45	40	44	22	20
9								32	39	28	21	19
10								28	38	111	22	18
11								28	39	37	29	19
12								128	82	49	82	33
13								1,690	53	29	24	21
14								370	34	28	20	18
15								312	49	25	18	18
16								809	64	24	18	18
17								251	41	22	21	18
18								99	42	21	47	28
19								70	41	23	30	31
20								59	37	23	20	19
21								52	39	22	17	24
22								45	173	22	219	73
23								40	59	20	71	24
24								38	46	32	30	20
25								37	36	59	26	18
26								36	32	29	24	16
27								37	28	28	24	18
28								221	28	26	22	18
29					------			174	40	84	20	16
30					------			86	55	112	20	16
31		------			------		------	63	------	68	21	------
TOTAL								4,982	1,452	1,225	1,139	670
MEAN								161	48.4	39.5	36.7	22.3
MAX								1,690	173	112	219	73
MIN								26	28	20	17	16

02115856 Salem Creek near Atwood, N. C.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	35	34	29	32	40	75	38	72	48	44	27
2	87	53	32	35	78	125	66	38	49	42	41	26
3	27	186	32	31	372	49	49	272	41	40	28	24
4	24	57	42	60	264	43	47	362	37	80	31	25
5	90	43	36	53	95	40	47	86	35	270	38	284
6	48	38	33	33	63	38	54	57	34	68	25	40
7	23	35	217	33	56	38	57	50	33	47	212	29
8	20	33	71	32	49	77	225	234	32	38	86	26
9	35	35	51	39	43	40	77	196	48	35	38	23
10	93	36	45	95	41	38	64	80	36	34	32	21
11	25	33	42	128	40	36	56	57	30	40	30	22
12	22	33	39	51	58	35	306	50	31	48	28	22
13	20	33	37	79	213	35	121	44	31	36	33	22
14	19	30	35	68	89	37	78	971	31	33	30	21
15	20	30	35	41	59	35	61	543	30	30	29	22
16	261	31	38	36	49	87	55	176	30	29	30	22
17	37	31	42	36	70	85	50	96	30	32	32	34
18	29	30	34	35	63	43	46	78	167	29	30	32
19	26	33	31	35	92	40	44	141	37	29	44	24
20	26	31	69	34	50	38	46	114	254	29	75	23
21	29	28	37	82	46	46	57	71	2,730	28	33	21
22	50	28	33	38	45	191	113	61	1,090	27	31	21
23	436	28	32	35	58	64	62	73	183	25	32	20
24	275	345	31	34	51	50	57	54	72	26	31	22
25	247	64	30	33	47	60	56	47	51	27	32	21
26	85	43	29	31	61	49	47	46	45	26	34	21
27	54	95	29	32	43	46	43	44	45	27	36	52
28	44	41	29	34	41	42	40	42	206	35	143	59
29	39	55	29	30	40	44	38	50	129	35	34	218
30	37	38	39	30	------	40	38	84	70	43	30	433
31	35	------	33	31	------	145	------	201	------	58	29	------
TOTAL	2,458	1,631	1,346	1,393	2,308	1,776	2,175	4,456	5,709	1,394	1,401	1,657
MEAN	79.3	54.4	43.4	44.9	79.6	57.3	72.5	144	190	45.0	45.2	55.2
MAX	436	345	217	128	372	191	306	971	2,730	270	212	433
MIN	19	28	29	29	32	35	38	38	30	25	25	20

WTR YR 1972 TOTAL 27,704 MEAN 75.7 MAX 2,730 MIN 19

02115860 Muddy Creek near Muddy Creek, N. C.

LOCATION.--Lat 36°00'01", long 80°20'25", Forsyth County, on right bank 100 ft upstream from bridge on Secondary Road 2995, 0.2 mile downstream from Salem Creek, and 1.8 miles east of community of Muddy Creek.

DRAINAGE AREA.--178 sq mi.

RECORDS AVAILABLE.--July 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 682.67 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 200 cfs (15.25 inches per year).

EXTREMES.--Current year: Maximum discharge, 14,500 cfs June 22 (gage height, 21.26 ft); minimum, 80 cfs Oct. 1 (gage height, 2.20 ft); minimum daily, 86 cfs Sept. 3.
Period of record: Maximum discharge, 14,500 cfs June 22, 1972 (gage height, 21.26 ft); minimum, 21 cfs Oct. 6, 1968 (gage height, 1.26 ft); minimum daily, 35 cfs Oct. 6, 1968.
Flood of June 1957 reached a stage of about 23 ft, from information by local resident.

REMARKS.--Records fair. Records for May 15, June 22, 23 after the peak are affected by backwater and are subject to error. Some regulation by Salem Lake and considerable diurnal fluctuation from sewage effluent and waste water. The city of Winston-Salem diverted an average of 22.1 cfs from Salem Lake in the basin and 23.4 cfs from the Yadkin River for water supply. An average of about 36.4 cfs sewage effluent was returned to Salem Creek 3.5 miles above the station. The creek channel was dredged in 1935-36 by the Work Projects Administration.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	273	165	175	124	15[illegible]	186	313	156	215	252	191	104
2	565	176	159	136	240	406	262	157	179	224	162	98
3	141	1,390	158	134	1,070	243	208	906	159	273	142	86
4	120	464	178	198	1,070	202	200	2,560	142	218	132	88
5	168	249	177	225	342	181	198	943	145	517	177	506
6	277	199	173	167	249	174	197	283	142	212	122	201
7	136	172	956	151	232	175	193	219	149	178	339	136
8	116	156	484	140	204	237	656	522	141	160	347	116
9	112	158	269	135	187	186	265	1,030	151	146	146	112
10	348	161	223	336	178	170	227	329	143	146	132	102
11	180	146	197	576	173	161	216	247	126	150	125	105
12	132	142	175	345	173	149	1,100	221	128	173	116	106
13	121	134	174	416	627	158	497	200	131	161	112	108
14	118	121	167	653	318	165	309	2,890	131	143	116	107
15	116	127	164	396	236	158	249	1,400	131	129	116	106
16	829	130	166	209	207	212	222	829	129	117	116	100
17	237	127	183	191	241	299	216	397	125	129	115	99
18	166	125	151	190	234	187	200	306	672	136	112	123
19	145	127	134	185	362	162	192	361	203	135	105	110
20	136	124	227	179	217	162	191	435	557	125	180	104
21	141	113	186	313	204	169	209	271	7,890	120	111	101
22	150	114	159	220	213	781	309	243	8,130	110	116	102
23	1,670	116	143	191	211	299	252	305	860	100	157	95
24	1,610	562	138	184	236	226	209	247	445	104	139	88
25	1,920	385	132	160	210	213	222	216	341	109	116	96
26	531	210	130	165	250	207	187	199	303	126	105	98
27	293	321	132	162	244	203	179	179	285	127	96	128
28	237	227	132	174	203	193	173	168	423	153	250	188
29	210	238	130	152	193	191	162	175	433	174	121	545
30	183	218	141	144	------	191	151	199	311	201	110	1,580
31	163	------	147	148	------	425	------	338	------	207	105	------
TOTAL	11,544	7,097	6,260	7,029	8,614	7,071	8,163	16,931	23,520	5,255	4,520	5,638
MEAN	372	237	202	227	297	228	272	546	784	170	146	188
MAX	1,920	1,390	956	653	1,070	781	1,100	2,890	8,130	517	347	1,580
MIN	112	113	130	124	150	149	151	156	125	100	96	86

CAL YR 1971 TOTAL 90,866 MEAN 249 MAX 4,500 MIN 91
WTR YR 1972 TOTAL 111,642 MEAN 305 MAX 8,130 MIN 86

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	2100	13.31	2,900	5- 8	2330	11.65	2,300
2- 3	1800	12.45	2,560	5-14	1430	15.62	4,300
4-12	1130	11.67	2,300	6-22	0200	21.26	14,500
5- 4	0330	13.81	3,160	9-30	0900	12.83	2,690

02115900 South Fork Muddy Creek near Clemmons, N. C.

LOCATION.--Lat 36°00'22", long 80°18'07", Forsyth County, on right bank 5 ft upstream from bridge on Secondary Road 2902, 1.9 miles downstream from Leak Creek, and 4.2 miles southeast of Clemmons.

DRAINAGE AREA.--42.2 sq mi.

PERIOD OF RECORD.--July 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 684 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 39.1 cfs (12.59 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,580 cfs June 21 (gage height, 15.70 ft, from floodmark in gage well); minimum, 14 cfs Sept. 2, 3, 4, 16, 17, 26, 27 (gage height, 2.74 ft).
Period of record: Maximum discharge, 2,980 cfs Aug. 10, 1970 (gage height, 16.30 ft); minimum, 3.8 cfs Oct. 3, 1968.
In the period 1930-64, three floods equalled or exceeded 15 ft. The highest was about 16.3 ft on Aug. 31, 1959 as a result of dam failure (from information by local resident).

REMARKS.--Records good except those for period of no gage-height record, which are fair. Creek channel improvement by dredging was done in 1915-16 by the county and in 1934-35 by Work Projects Administration.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	30	40	29	29	39	64	30	36	43	52	16
2	94	31	35	33	55	48	51	29	32	36	60	16
3	25	82	32	29	285	43	44	46	30	34	27	15
4	21	45	34	39	210	39	42	103	29	34	23	15
5	21	34	39	46	77	37	39	36	28	169	21	85
6	22	31	39	34	62	36	38	32	27	51	20	31
7	19	30	171	31	55	36	38	30	27	39	76	21
8	18	28	85	29	43	47	82	55	26	33	78	19
9	19	27	52	30	41	40	42	84	25	31	27	18
10	35	30	44	62	39	37	40	39	28	30	23	17
11	24	27	39	111	37	35	40	34	24	31	22	17
12	21	26	35	68	39	35	210	32	24	34	21	17
13	20	27	34	92	160	35	90	31	24	32	20	16
14	19	25	32	136	67	35	59	548	24	29	24	16
15	19	25	32	68	54	34	50	184	23	28	20	15
16	125	25	34	46	47	45	45	92	22	29	19	15
17	36	25	41	40	52	82	41	62	23	28	20	21
18	27	25	32	39	52	45	38	50	34	27	19	29
19	25	24	29	39	64	40	36	78	25	28	18	18
20	24	24	45	37	50	37	36	110	87	27	29	16
21	25	24	39	54	49	37	39	57	1,630	26	19	16
22	28	23	33	41	49	85	63	48	603	25	18	16
23	317	23	31	38	46	46	50	46	111	25	17	15
24	276	50	30	36	49	40	40	40	68	25	17	15
25	161	110	29	34	45	39	38	37	54	25	16	16
26	71	80	29	32	48	42	35	33	45	24	16	15
27	48	40	31	32	43	42	33	32	39	24	16	19
28	40	60	30	32	41	39	32	32	98	26	30	34
29	35	45	28	31	40	38	32	31	124	27	19	43
30	32	48	30	31	------	37	31	67	70	30	17	100
31	31	------	33	30	------	75	------	66	------	30	16	------
TOTAL	1,722	1,124	1,267	1,429	1,928	1,345	1,518	2,194	3,440	1,080	820	722
MEAN	55.5	37.5	40.9	46.1	66.5	43.4	50.6	70.8	115	34.8	26.5	24.1
MAX	317	110	171	136	285	85	210	548	1,630	169	78	100
MIN	18	23	28	29	29	34	31	29	22	24	16	15
CFSM	1.32	.89	.97	1.09	1.58	1.03	1.20	1.68	2.73	.82	.63	.57
IN.	1.52	.99	1.12	1.26	1.70	1.19	1.34	1.93	3.03	.95	.72	.64

CAL YR 1971 TOTAL 17,665 MEAN 48.4 MAX 1,300 MIN 15 CFSM 1.15 IN 15.57
WTR YR 1972 TOTAL 18,589 MEAN 50.8 MAX 1,630 MIN 15 CFSM 1.20 IN 16.39

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-14	1800	10.55	874	6-21	Unknown	15.70	2,580

NOTE.--No gage-height record part of June 21.

02116500 Yadkin River at Yadkin College, N. C.

LOCATION.--Lat 35°51'24", long 80°23'10", Davidson County, near left bank on downstream end of pier of bridge on U. S. Highway 64, 1.5 miles south of Yadkin College, 6.2 miles downstream from Reedy Creek, and 295 miles upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--2,280 sq mi, approximately.

PERIOD OF RECORD.--July 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 638.65 ft above mean sea level (levels by Corps of Engineers). Prior to July 26, 1957 at site on left bank 80 ft downstream at same datum.

AVERAGE DISCHARGE.--44 years, 2,880 cfs (17.16 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 75,200 cfs June 22 (gage height, 32.81 ft); minimum, 1,110 cfs Aug. 31 (gage height, 1.22 ft); minimum daily, 1,380 cfs Sept. 23.
Period of record: Maximum discharge, 80,200 cfs Aug. 15, 1940 (gage height, 33.75 ft); minimum observed, 177 cfs Oct. 12, 1954 (gage height, -0.42 ft); minimum daily, 330 cfs Oct. 9, 1954, Sept. 23, 1956.
Flood of July 1916, reached a stage of 36.3 ft, from floodmarks (discharge, 94,300 cfs).

REMARKS.--Records good. Diurnal fluctuation during low flow caused by small hydroelectric plant with little storage capacity 10 miles upstream. Since August 1962, some regulation by W. Kerr Scott Reservoir. (See p. 143). Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 852: 1935-37(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,160	3,420	3,600	2,570	2,650	2,900	4,450	2,670	3,440	3,580	3,200	1,570
2	3,310	3,860	3,210	2,490	2,830	3,340	4,050	2,650	3,120	3,270	3,620	1,540
3	3,100	12,000	2,960	2,560	4,140	3,440	3,840	3,440	2,880	3,020	3,350	1,490
4	2,400	17,700	2,890	2,580	7,570	3,270	3,480	14,800	2,800	3,060	3,080	1,520
5	2,180	7,810	3,060	2,870	4,260	2,990	3,170	10,500	2,720	4,220	2,730	1,870
6	2,550	6,130	3,190	2,920	3,410	2,820	3,100	5,120	2,620	4,720	2,610	3,380
7	2,230	5,550	5,650	2,730	3,180	2,720	3,050	3,850	2,610	3,500	2,290	2,360
8	2,050	4,160	11,400	2,530	2,990	2,920	4,390	3,580	2,650	3,070	3,250	1,810
9	2,000	3,650	6,890	2,460	2,840	2,910	4,530	6,210	2,600	2,880	2,540	1,720
10	2,690	3,480	5,070	2,800	2,800	2,720	3,520	4,870	2,530	2,890	2,150	1,620
11	3,430	3,230	4,490	4,470	2,720	2,670	3,290	3,730	2,480	2,720	2,020	1,640
12	2,460	3,230	3,770	5,480	2,700	2,650	5,270	3,250	2,420	2,710	1,980	1,600
13	2,220	3,050	3,430	4,990	4,340	2,690	8,030	3,210	2,360	2,860	1,990	1,580
14	2,000	2,960	3,280	14,500	6,650	2,680	5,160	9,470	2,320	2,920	2,390	1,550
15	1,890	2,870	3,210	11,700	4,870	2,660	4,190	20,900	2,280	2,660	2,040	1,500
16	4,810	2,830	3,100	6,450	3,870	2,620	3,670	14,700	2,240	2,620	1,920	1,490
17	5,350	2,810	3,130	5,430	3,460	3,210	3,500	6,660	2,210	2,760	1,870	1,450
18	3,070	2,740	2,950	3,810	3,430	3,340	3,290	4,980	3,770	2,890	1,880	1,650
19	2,560	2,680	2,860	3,600	3,700	3,090	3,080	4,350	3,870	3,050	1,820	1,570
20	2,370	2,660	2,820	3,350	3,610	2,720	2,990	4,730	3,610	2,790	1,940	1,560
21	2,280	2,650	3,020	3,520	3,160	2,650	2,950	4,360	25,900	2,660	1,850	1,390
22	2,310	2,560	2,920	3,720	3,040	5,800	3,110	6,230	66,000	2,420	1,720	1,480
23	6,200	2,480	2,730	3,500	3,030	7,710	4,580	5,330	37,800	2,310	1,780	1,380
24	20,600	2,820	2,640	3,460	3,100	5,170	4,000	5,020	7,890	2,290	1,660	1,390
25	27,700	3,960	2,640	3,330	3,170	3,690	3,490	4,220	9,310	2,290	1,690	1,430
26	27,800	3,420	2,630	3,060	3,210	3,370	3,080	3,780	8,860	2,170	1,640	1,450
27	9,250	3,360	2,630	2,910	3,720	3,440	2,970	3,380	7,600	2,080	1,610	1,500
28	6,290	3,380	2,590	2,890	3,270	3,260	2,920	3,200	5,280	2,290	1,840	1,690
29	5,520	3,280	2,500	2,990	3,020	3,060	2,850	3,170	4,250	2,370	2,000	3,720
30	4,300	3,600	2,470	2,910	------	3,140	2,800	3,090	4,240	2,700	1,660	8,770
31	3,370	------	2,600	2,830	------	3,670	------	3,440	------	3,060	1,560	------
TOTAL	170,450	128,330	110,330	125,410	104,740	103,320	112,800	178,890	232,660	88,830	67,680	58,670
MEAN	5,498	4,278	3,559	4,045	3,612	3,333	3,760	5,771	7,755	2,865	2,183	1,956
MAX	27,800	17,700	11,400	14,500	7,570	7,710	8,030	20,900	66,000	4,720	3,620	8,770
MIN	1,890	2,480	2,470	2,460	2,650	2,620	2,800	2,650	2,210	2,080	1,560	1,380
(†)	+71	-6	-6	-79	+40	+50	-6	0	+3	-1	-44	-59

CAL YR 1971 TOTAL 1,269,080 MEAN 3,477 MAX 27,800 MIN 1,570 MEAN± 3,484 CFSM± 1.53 IN± 20.74
WTR YR 1972 TOTAL 1,482,110 MEAN 4,049 MAX 66,000 MIN 1,380 MEAN± 4,046 CFSM± 1.77 IN± 24.19

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir; furnished by Corps of Engineers.

± Adjusted for change in W. Kerr Scott Reservoir.

02117030 Humpy Creek near Fork, N. C.

LOCATION.--Lat 35°51'17", long 80°26'24", Davie County, on left bank 9 ft upstream from culvert on Secondary Road 1813, 1.9 miles south of Fork, and 2.3 miles upstream from mouth.

DRAINAGE AREA.--1.05 sq mi.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Altitude of gage is 695 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 161 cfs Oct. 25 (gage height, 4.57 ft), from rating curve extended as explained below; minimum, 0.15 cfs Sept. 3 (gage height, 0.42 ft).
Period of record: Maximum discharge, 161 cfs Oct. 25, 1971 (gage height, 4.57 ft), from rating curve extended above 65 cfs on basis of computation of flow through culvert; minimum daily, 0.12 cfs Oct. 1-6, 1968.
A discharge of 0.08 cfs was measured on Sept. 23, 1968.

REMARKS.--Records fair. Diurnal fluctuation at low flow during growing season. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.83	.75	.61	.79	.91	1.6	.72	.71	.65	.48	.25
2	.99	.78	.72	.70	1.2	1.2	1.3	.71	.66	.64	.47	.24
3	.47	1.1	.78	.62	7.5	1.1	1.1	4.4	.64	.65	.43	.22
4	.41	.79	.81	.93	2.5	.93	1.1	4.3	.62	.67	.42	.23
5	.40	.76	1.2	.94	1.5	.88	.96	1.6	.61	.33	.38	.72
6	.43	.67	1.5	.76	1.4	.82	.91	1.2	.61	.67	.38	.37
7	.35	.63	8.7	.76	1.2	.80	.99	1.0	.61	.61	.50	.32
8	.34	.61	2.6	.67	.96	1.1	1.5	2.6	.55	.58	.45	.31
9	.38	.60	1.7	.79	.90	.90	1.0	2.1	.64	.56	.42	.32
10	.62	.60	1.4	1.6	.85	.86	.95	1.3	.64	.55	.39	.29
11	.44	.58	1.1	2.6	.84	.81	.94	1.0	.57	.56	.36	.28
12	.39	.57	.97	1.8	1.1	.81	4.3	.91	.55	.67	.35	.28
13	.37	.56	.88	2.9	3.1	.82	2.0	.86	.56	.61	.34	.26
14	.37	.56	.82	4.0	1.6	.80	1.5	20	.53	.54	.32	.24
15	.36	.56	.80	1.9	1.3	.77	1.3	3.5	.52	.51	.31	.24
16	7.	.56	.78	1.3	1.1	.95	1.2	3.9	.51	.51	.31	.24
17	3.0	.56	.76	1.1	1.3	1.2	.99	2.3	.55	.52	.32	.32
18	1.0	.55	.68	1.1	1.2	.87	.91	1.6	.93	.49	.35	.32
19	.80	.56	.67	1.0	1.4	.82	.88	1.8	.60	.49	.34	.28
20	.70	.57	1.9	.92	1.2	.79	.86	1.8	12	.46	.33	.26
21	.65	.55	.85	1.3	1.3	.93	.88	1.4	51	.44	.30	.24
22	.60	.50	.73	1.0	1.3	2.7	1.5	1.2	2.7	.43	.28	.24
23	22	.50	.70	.94	1.2	1.4	1.2	1.1	1.5	.42	.27	.23
24	9.5	2.2	.70	.89	1.2	1.1	.97	.94	1.1	.40	.26	.23
25	29	1.5	.68	.82	1.1	1.1	.90	.85	.88	.40	.26	.23
26	2.5	1.0	.67	.77	1.2	1.3	.86	.76	.79	.39	.26	.23
27	1.6	1.3	.66	.77	.99	1.2	.81	.76	.73	.39	.28	.22
28	1.2	1.0	.65	.77	.95	1.1	.79	.74	.81	.41	.27	.40
29	.95	1.0	.64	.74	.91	1.1	.77	.82	.81	.67	.25	.41
30	.86	.86	.68	.75	------	1.0	.74	.84	.72	.55	.24	.57
31	.88	------	.64	.71	------	1.8	------	.89	------	.53	.24	------
TOTAL	89.86	23.34	36.22	36.39	43.20	32.87	35.71	67.90	84.63	16.82	10.54	8.99
MEAN	2.90	.78	1.17	1.17	1.49	1.06	1.19	2.19	2.82	.54	.34	.30
MAX	29	2.2	8.7	4.0	7.5	2.7	4.3	20	51	.83	.50	.72
MIN	.34	.50	.64	.60	.70	.77	.74	.71	.50	.39	.24	.22
CFSM	2.76	.74	1.11	1.11	1.42	1.01	1.13	2.09	2.69	.51	.32	.29
IN.	3.18	.83	1.28	1.29	1.53	1.16	1.27	2.41	3.00	.60	.37	.32

CAL YR 1971 TOTAL 423.36 MEAN 1.16 MAX 29 MIN .28 CFSM 1.10 IN 15.00
WTR YR 1972 TOTAL 486.47 MEAN 1.33 MAX 51 MIN .22 CFSM 1.27 IN 17.23

PEAK DISCHARGE (BASE, 20 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	1515	2.93	96	4-12	0845	1.66	24
10-25	0200	4.57	161	5-14	0810	2.67	86
12- 7	0935	1.85	34	6-21	0955	4.32	149
2- 3	1345	1.72	27				

02118000 South Yadkin River near Mocksville, N. C.

LOCATION.--Lat 35°50'39", long 80°39'38", Rowan County, on right bank at downstream side of bridge on Secondary Road 1972, 1 mile upstream from Little Creek, 4 miles downstream from Fifth Creek, 4.5 miles upstream from Hunting Creek, and 6.5 miles southwest of Mocksville.

DRAINAGE AREA.--313 sq mi.

PERIOD OF RECORD.--October 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 663.6 ft above mean sea level.

AVERAGE DISCHARGE.--34 years, 326 cfs (14.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,730 cfs June 22 (gage height, 17.02 ft); minimum, 142 cfs Sept. 17, 21, 22, 23, 24, 27, 28 (gage height, 1.98 ft).
Period of record: Maximum discharge, 11,800 cfs Oct. 17, 1964 (gage height, 18.23 ft); minimum, 30 cfs Aug. 14, 16, 1956.
The flood of Oct. 3, 1929 reached a stage of 22.6 ft, from floodmark established by local resident (discharge, about 22,000 cfs).

REMARKS.--Records good. The city of Statesville at times diverts as much as 9.3 cfs for water supply. The Alexander Water Corporation withdraws an average of 1.0 cfs for water supply. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	357	367	363	310	345	547	296	314	322	300	162
2	367	390	335	296	332	542	476	290	296	304	536	161
3	329	578	327	306	575	473	422	445	287	324	355	157
4	253	944	351	311	731	417	395	1,900	281	305	283	152
5	241	553	371	403	456	384	378	2,000	275	411	245	210
6	238	446	471	356	397	357	359	626	270	364	265	288
7	233	405	1,300	323	366	342	351	485	270	299	233	223
8	212	377	1,990	309	363	359	403	546	259	281	233	188
9	207	354	1,110	304	348	358	394	849	253	271	215	177
10	275	347	650	434	331	334	354	528	255	263	203	176
11	308	337	545	756	325	324	341	422	254	258	198	166
12	250	324	477	853	331	314	642	383	243	259	198	163
13	228	314	432	753	694	315	719	360	237	276	196	162
14	219	308	400	1,170	630	314	493	1,690	234	280	188	157
15	213	299	391	1,040	465	309	425	2,380	230	265	184	150
16	1,750	294	376	634	412	307	393	1,030	224	248	178	146
17	5,050	289	410	447	398	363	377	1,010	221	286	176	143
18	2,670	283	365	447	417	362	355	658	237	262	178	175
19	640	280	340	423	440	317	338	617	263	239	178	172
20	480	280	381	407	406	305	331	537	378	232	186	158
21	413	276	405	425	375	301	328	582	2,970	223	180	146
22	396	266	360	435	368	987	356	512	8,300	215	168	144
23	1,160	251	334	409	358	1,130	457	499	3,620	210	164	142
24	1,960	343	328	392	357	561	387	461	583	243	160	143
25	2,050	476	327	374	357	453	373	398	511	220	158	148
26	978	386	322	354	362	436	342	365	431	203	154	149
27	664	382	317	343	378	445	325	340	384	195	154	143
28	536	385	310	344	356	414	315	333	355	194	519	172
29	463	366	305	341	344	390	308	327	355	202	237	362
30	418	401	301	334	------	396	302	327	349	333	182	884
31	398	------	312	328	------	445	------	330	------	295	167	------
TOTAL	23,868	11,341	14,979	14,444	12,002	13,140	12,032	24,121	23,232	8,284	6,971	5,919
MEAN	770	378	483	466	414	424	401	778	774	267	225	197
MAX	5,050	944	1,990	1,170	731	1,130	719	3,030	8,300	411	536	884
MIN	207	261	301	296	316	301	302	290	221	194	154	142
CFSM	2.46	1.21	1.54	1.49	1.32	1.35	1.28	2.49	2.47	.85	.72	.63
IN.	2.84	1.35	1.78	1.72	1.43	1.56	1.43	2.87	2.76	.98	.83	.70

CAL YR 1971 TOTAL 163,731 MEAN 449 MAX 5,050 MIN 140 CFSM 1.43 IN 19.46
WTR YR 1972 TOTAL 170,333 MEAN 465 MAX 8,300 MIN 142 CFSM 1.49 IN 20.24

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-17	1430	14.46	6,310	5-16	0130	11.41	3,650
5- 5	0700	9.45	2,620	6-22	1230	17.02	9,730

02118500 Hunting Creek near Harmony, N. C.

LOCATION.--Lat 36°00'01", long 80°44'45", Iredell County, on right bank at downstream side of bridge on Secondary Road 2115, 0.8 mile downstream from Kennedy Creek, 1 mile east of Houstonville, 2 miles downstream from U. S. Highway 21, and 3.5 miles northeast of Harmony.

DRAINAGE AREA.--153 sq mi.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1723.

GAGE.--Water-stage recorder. Datum of gage is 734.78 ft above mean sea level, unadjusted. Prior to Apr. 5, 1951, nonrecording gage on upstream side of bridge at same datum.

AVERAGE DISCHARGE.--22 years, 192 cfs (17.07 inches per year).

EXTREMES.--Current year: Maximum discharge, 12,700 cfs June 21 (gage height, 24.30 ft, from high-water mark in well); minimum, 90 cfs Sept. 23, 27 (gage height, 1.16 ft).
Period of record: Maximum discharge, 12,700 cfs June 21, 1972 (gage height, 24.30 ft, from high-water mark in well); minimum, 18 cfs Oct. 8, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	287	238	189	202	241	377	214	198	237	199	107
2	325	365	209	197	216	320	339	211	188	223	201	106
3	202	4,010	207	194	346	308	298	787	186	225	202	102
4	170	942	211	216	364	267	281	1,050	181	213	167	100
5	160	532	215	235	264	252	259	434	180	277	170	207
6	175	416	241	201	246	234	250	325	174	218	156	197
7	152	369	1,140	193	242	229	248	282	175	198	154	130
8	139	325	715	187	218	244	337	342	169	188	197	116
9	146	304	414	192	211	225	264	439	168	181	150	113
10	272	293	330	293	208	218	248	305	168	175	145	113
11	200	275	295	442	207	214	245	267	164	170	143	105
12	168	263	262	386	211	211	563	251	160	174	144	105
13	153	253	248	457	570	210	450	241	157	184	139	102
14	153	242	231	1,080	408	215	356	2,190	157	168	149	99
15	143	233	230	483	316	209	314	912	152	158	133	99
16	1,860	225	232	334	276	220	289	606	150	170	129	97
17	422	217	220	280	281	300	283	435	172	345	133	96
18	271	211	210	263	286	230	251	366	348	224	129	105
19	216	207	203	255	294	215	242	382	206	208	130	101
20	196	203	236	247	254	208	239	400	757	190	137	94
21	193	198	227	278	245	215	242	348	9,480	181	126	93
22	221	191	208	256	250	1,030	348	316	2,590	177	123	93
23	1,550	186	198	261	238	473	368	351	563	172	117	92
24	1,780	255	200	243	249	340	291	290	432	170	117	95
25	1,110	284	200	233	243	297	263	257	362	179	115	96
26	586	259	198	217	290	288	246	231	317	163	113	92
27	407	255	196	217	287	299	232	217	286	159	121	110
28	335	260	195	225	259	272	225	210	292	164	155	199
29	292	279	192	216	248	271	222	210	268	194	118	405
30	268	309	194	213	------	275	217	215	284	236	109	878
31	275	------	201	207	------	374	------	215	------	191	108	------
TOTAL	12,690	12,648	8,496	8,890	7,929	8,904	8,787	13,299	19,084	6,112	4,429	4,447
MEAN	409	422	274	287	273	287	293	429	636	197	143	148
MAX	1,860	4,010	1,140	1,080	570	1,030	563	2,190	9,480	345	202	878
MIN	139	186	192	187	202	208	217	210	150	158	108	92
CFSM	2.67	2.76	1.79	1.88	1.78	1.88	1.92	2.80	4.16	1.29	.93	.97
IN.	3.09	3.08	2.07	2.16	1.93	2.16	2.14	3.23	4.64	1.49	1.08	1.08

CAL YR 1971 TOTAL 92,993 MEAN 255 MAX 4,010 MIN 70 CFSM 1.67 IN 22.61
WTR YR 1972 TOTAL 115,715 MEAN 316 MAX 9,480 MIN 92 CFSM 2.07 IN 28.13

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-16	0630	15.16	4,300	5-14	1430	13.85	3,740
10-23	2200	11.16	2,850	6-21	1430	24.30	12,700
11- 3	0830	16.90	5,430	9-30	1030	8.42	2,140
5- 4	0130	8.82	2,150				

02125000 Big Bear Creek near Richfield, N. C.

LOCATION.--Lat 35°20'02", long 80°20'09", Stanly County, on left bank 300 ft downstream from Little Creek, 400 ft upstream from bridge on Secondary Road 1134, and 10 miles southwest of Richfield.

DRAINAGE AREA.--55.7 sq mi.

PERIOD OF RECORD.--May 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 426.62 ft above mean sea level, unadjusted.

AVERAGE DISCHARGE.--18 years, 54.6 cfs (13.32 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,040 cfs Oct. 16 (gage height, 10.15 ft); no flow Sept. 3-5, 9-27.
Period of record: Maximum discharge, 11,100 cfs Aug. 22, 1967 (gage height, 15.95 ft); no flow at times 1954, 1961-64, 1966-69, 1972.
Flood of August 1921 reached a stage of about 19 ft, from information by North Carolina State Highway Commission.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1503: 1955, 1956(M). WSP 1553: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	33	37	25	35	30	130	11	19	8.2	5.9	.08
2	102	28	30	23	610	29	76	9.9	15	7.3	3.3	.02
3	24	87	30	22	1,020	27	53	30	13	6.4	2.5	0
4	12	56	35	29	341	24	45	31	11	6.2	2.1	0
5	8.5	33	135	65	148	22	41	17	9.8	12	1.6	0
6	97	27	225	42	106	20	32	12	11	13	1.2	.25
7	29	24	150	31	90	19	29	10	19	8.5	1.1	.20
8	14	20	110	26	63	20	33	12	10	6.8	1.2	.10
9	11	19	71	25	53	20	27	38	8.5	5.9	1.0	0
10	563	18	57	919	47	17	23	24	7.9	5.1	.99	0
11	144	17	50	459	41	17	23	14	7.4	4.9	1.1	0
12	56	16	45	232	42	16	73	11	6.8	19	.91	0
13	32	15	157	303	210	16	70	9.5	6.4	18	1.2	0
14	23	14	82	207	104	16	43	239	5.9	8.9	.82	0
15	17	13	63	115	70	15	31	228	5.5	6.3	.70	0
16	1,340	13	53	74	56	20	25	192	5.2	4.9	.58	0
17	191	12	55	57	71	56	20	71	4.8	14	.50	0
18	82	11	57	53	84	41	16	41	4.6	12	.50	0
19	52	11	40	51	187	27	14	124	4.6	4.6	.42	0
20	38	11	115	45	107	22	14	273	90	3.7	.30	0
21	32	11	173	63	75	20	16	111	1,250	3.0	.27	0
22	35	9.6	93	56	63	146	32	138	165	2.6	.24	0
23	265	9.5	63	48	53	72	65	257	55	2.4	.20	0
24	257	121	54	42	55	42	33	105	31	2.0	.18	0
25	277	175	47	37	51	33	30	68	22	16	.16	0
26	123	63	41	30	46	40	24	65	17	18	.32	0
27	73	98	37	28	40	66	18	37	13	8.5	.43	0
28	53	85	33	28	35	58	15	29	11	3.3	1.3	.20
29	40	62	29	28	33	53	14	24	11	4.9	.52	.10
30	34	56	27	36	------	63	12	26	9.9	3.2	.29	7.1
31	33	------	29	40	------	129	------	27	------	6.5	.15	------
TOTAL	4,061.0	1,168.1	2,223	3,239	3,936	1,196	1,077	2,284.4	1,850.3	246.1	31.98	8.05
MEAN	131	38.9	71.7	104	136	38.6	35.9	73.7	61.7	7.94	1.03	.27
MAX	1,340	175	225	919	1,020	146	130	273	1,250	19	5.9	7.1
MIN	3.5	9.5	27	22	33	15	12	9.5	4.6	2.0	.15	0
CFSM	2.35	.70	1.29	1.87	2.44	.69	.64	1.32	1.11	.14	.02	.005
IN.	2.71	.78	1.48	2.16	2.63	.80	.72	1.53	1.24	.16	.02	.005

CAL YR 1971 TOTAL 25,720.90 MEAN 70.5 MAX 2,140 MIN 1.2 CFSM 1.27 IN 17.18
WTR YR 1972 TOTAL 21,320.93 MEAN 58.3 MAX 1,340 MIN 0 CFSM 1.05 IN 14.24

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-16	0830	10.15	4,040	2- 3	1600	8.45	2,770
1-10	1700	8.28	2,670	6-21	1200	8.65	2,890

02126000 Rocky River near Norwood, N. C.

LOCATION.--Lat 35°08'50", long 80°10'26", Stanly County, on left bank 1,000 ft downstream from Lanes Creek, 1.5 miles upstream from bridge on Secondary Road 1935, 6 miles southwest of Norwood, and 11.2 miles upstream from mouth.

DRAINAGE AREA.--1,370 sq mi, approximately.

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 212.91 ft above mean sea level, (levels by Corps of Engineers).

AVERAGE DISCHARGE.--43 years, 1,283 cfs (12.72 inches per year).

EXTREMES.--Current year: Maximum discharge, 26,600 cfs Jan. 11 (gage height, 18.80 ft); minimum, 78 cfs Sept. 4 (gage height, 0.40 ft).
Period of record: Maximum discharge, 105,000 cfs Sept. 18, 1945 (gage height, 46.37 ft, from floodmark); minimum, 17 cfs Oct. 8, 1954 (gage height, 0.00 ft).
Flood in August 1908 reached a stage of 35 ft, from information by local residents (discharge, 67,600 cfs).

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 852: 1937. WSP 1052: 1936(M). WSP 1503: 1935, 1945.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	957	1,320	654	1,650	1,000	4,420	340	602	301	476	108
2	2,970	904	923	591	14,200	1,000	2,390	330	470	255	372	102
3	3,860	2,000	820	560	12,300	950	1,430	518	388	224	438	94
4	1,200	3,100	913	555	16,600	850	1,080	867	334	215	268	85
5	610	1,410	2,490	1,120	5,380	800	1,060	680	296	306	202	127
6	1,870	910	7,210	1,320	2,930	750	908	455	283	513	174	106
7	2,370	764	5,350	856	2,420	700	800	361	711	440	149	148
8	862	659	4,580	684	1,910	650	800	328	509	289	141	155
9	580	594	3,090	596	1,400	600	1,000	526	333	231	152	124
10	11,400	566	1,850	4,390	1,190	580	800	992	271	204	160	111
11	9,740	546	1,410	25,100	1,060	540	700	596	250	190	160	99
12	2,600	522	1,180	11,700	999	520	800	418	227	210	143	87
13	1,240	499	1,940	6,370	4,370	500	1,000	351	213	388	136	89
14	850	473	1,820	10,900	4,180	500	2,000	1,760	214	366	131	93
15	675	441	1,260	5,240	2,210	500	1,000	6,050	212	262	157	98
16	12,400	437	1,090	2,640	1,530	500	900	5,450	204	212	178	99
17	13,100	435	1,530	1,660	1,480	1,200	650	2,330	195	233	147	98
18	3,920	421	2,600	1,340	2,230	2,390	550	1,250	198	338	146	192
19	1,750	407	1,500	1,250	4,920	1,010	520	1,960	182	331	138	286
20	1,150	410	1,160	1,170	3,700	705	460	3,520	310	300	129	216
21	942	414	3,130	1,190	2,120	608	440	2,230	6,000	240	114	143
22	970	373	2,340	1,430	1,580	2,690	500	1,240	17,000	200	99	119
23	4,320	342	1,390	1,240	1,310	3,400	791	2,510	4,000	175	102	113
24	5,340	668	1,060	1,110	1,230	1,390	957	1,900	951	222	106	108
25	15,800	5,780	947	993	1,230	921	678	1,060	623	181	108	96
26	10,700	2,840	864	869	1,260	865	601	946	478	391	110	86
27	3,140	1,660	805	761	1,600	1,160	504	713	400	594	111	94
28	1,940	2,670	751	737	1,200	1,340	444	543	357	306	173	123
29	1,350	1,720	712	739	1,100	1,140	408	466	334	448	150	246
30	1,090	1,760	666	900	------	2,410	373	473	324	696	118	752
31	963	------	659	2,610	------	2,490	------	1,250	------	480	113	------
TOTAL	119,891	34,682	57,360	91,275	99,289	34,659	28,864	42,413	36,859	9,741	5,301	4,397
MEAN	3,867	1,156	1,850	2,944	3,424	1,118	962	1,368	1,229	314	171	147
MAX	15,800	5,780	7,210	25,100	16,600	3,400	4,420	6,050	17,000	696	476	752
MIN	189	342	659	555	999	500	373	328	182	175	99	85
CFSM	2.82	.84	1.35	2.15	2.50	.82	.70	1.00	.90	.23	.12	.11
IN.	3.26	.94	1.56	2.48	2.70	.94	.78	1.15	1.00	.26	.14	.12

CAL YR 1971 TOTAL 751,524 MEAN 2,059 MAX 27,800 MIN 182 CFSM 1.50 IN 20.41
WTR YR 1972 TOTAL 564,731 MEAN 1,543 MAX 25,100 MIN 85 CFSM 1.13 IN 15.33

PEAK DISCHARGE (BASE, 16,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-10	1900	14.16	17,600	1-11	1000	18.80	26,600
10-16	1800	16.88	22,800	2- 4	0100	17.24	23,500
10-25	1100	14.89	19,000	6-22	Unknown	15.8	20,600

02128000 Little River near Star, N. C.

LOCATION.--Lat 35°23'11", long 79°49'56", Montgomery County, on left bank 9 ft downstream from bridge on Secondary Road 1340, 50 ft upstream from Black Rock Branch, 0.2 mile upstream from Norfolk Southern Railway bridge, 0.3 mile downstream from West Fork Little River, and 3 miles west of Star.

DRAINAGE AREA.--105 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-54. April 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 409.00 ft above mean sea level.

AVERAGE DISCHARGE.--18 years, 103 cfs (13.35 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,590 cfs June 21 (gage height, 11.69 ft); minimum, 7.8 cfs Sept. 17 (gage height, 1.21 ft).
Period of record: Maximum discharge, 10,400 cfs Oct. 15, 1954 (gage height, 16.46 ft); minimum, 0.24 cfs Oct. 4, 5, 1968 (gage height, 0.68 ft), may be affected by upstream pond storage releases for water supply.
Flood in September 1945 reached a stage of about 20 ft, from information by local resident.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	83	90	87	85	91	250	75	133	69	111	15
2	225	78	79	76	791	91	148	74	90	63	50	14
3	94	98	79	74	986	92	120	307	78	57	39	13
4	48	145	89	73	972	89	108	374	72	55	33	13
5	36	83	118	102	225	86	126	126	68	84	29	17
6	336	80	253	100	159	80	109	92	65	85	28	44
7	125	70	153	81	146	77	103	82	73	62	27	32
8	56	62	140	74	123	79	133	88	66	54	31	20
9	41	58	108	71	108	81	114	161	60	49	39	16
10	1,010	56	95	464	102	78	98	103	57	47	28	13
11	404	54	91	963	98	76	95	78	57	45	24	12
12	112	52	88	328	98	76	480	72	53	69	22	11
13	77	51	107	420	504	76	355	68	51	78	22	10
14	62	50	96	391	233	77	168	461	51	57	133	9.7
15	54	49	87	177	140	75	133	445	49	47	47	8.7
16	1,410	49	83	130	119	78	121	285	47	42	31	8.2
17	384	48	85	107	122	173	107	136	48	41	26	9.2
18	128	48	93	103	138	142	95	105	67	42	23	18
19	92	48	82	103	295	95	87	272	60	39	21	19
20	81	48	105	100	181	83	86	464	200	36	20	17
21	78	47	282	121	127	80	95	175	4,710	34	18	12
22	84	47	135	144	116	444	126	234	1,160	32	17	11
23	606	47	98	111	108	220	242	600	163	30	16	10
24	998	113	90	101	112	127	128	227	108	33	15	9.7
25	666	471	87	95	115	108	111	152	90	31	13	9.2
26	214	127	84	88	108	116	99	134	81	29	13	8.7
27	133	137	83	84	109	188	87	103	74	27	12	8.2
28	105	202	79	86	99	140	85	93	77	26	61	19
29	92	113	77	87	95	119	79	87	191	50	35	27
30	86	105	75	94	------	119	76	103	87	66	24	181
31	88	------	86	94	------	179	------	288	------	114	18	------
TOTAL	7,948	2,719	3,297	5,129	6,614	3,635	4,164	6,064	8,186	1,593	1,026	615.6
MEAN	256	90.6	106	165	228	117	139	196	273	51.4	33.1	20.5
MAX	1,410	471	282	963	986	444	480	600	4,710	114	133	181
MIN	23	47	75	71	85	75	76	68	47	26	12	8.2
CFSM	2.44	.86	1.01	1.57	2.17	1.11	1.32	1.87	2.60	.49	.32	.20
IN.	2.82	.96	1.17	1.82	2.34	1.29	1.48	2.15	2.90	.56	.36	.22

CAL YR 1971 TOTAL 52,020.0 MEAN 143 MAX 2,710 MIN 17 CFSM 1.36 IN 18.43
WTR YR 1972 TOTAL 50,990.6 MEAN 139 MAX 4,710 MIN 8.2 CFSM 1.32 IN 18.07

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-16	1730	8.39	2,980	6-21	1630	11.69	5,590
2- 3	2330	7.71	2,540				

02129000 Pee Dee River near Rockingham, N. C.

LOCATION.--34°56'46", long 79°52'11", Richmond County, on left bank at bridge on U. S. Highway 74, 2.5 miles upstream from Falling Creek, 3.3 miles downstream from Blewett Falls hydroelectric plant, 6 miles west of Rockingham, and 192 miles upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,870 sq mi, approximately.

PERIOD OF RECORD.--August 1906 to January 1912, October 1927 to current year. Published as Yadkin River near Pee Dee, N. C., August 1906 to January 1912.

GAGE.--Water-stage recorder. Datum of gage is 120.68 ft above mean sea level (levels by Corps of Engineers). August 1906 to January 1912 nonrecording gage at site 3.3 miles upstream at different datum. September 1927 to Sept. 30, 1931, water-stage recorder at present site at datum 1.00 ft higher.

AVERAGE DISCHARGE.--50 years (1906-11, 1927-72), 7,750 cfs (15.32 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 97,700 cfs June 23 (gage height, 15.07 ft); minimum, 211 cfs Apr. 24 (gage height, 0.77 ft); minimum daily, 245 cfs Aug. 13.
Period of record: Maximum discharge, 276,000 cfs Aug. 27, 1908 (gage height, 31.28 ft, present site and datum, from records of State Highway Commission); minimum, 50 cfs Dec. 2, 3, 1951; minimum daily, 58 cfs Dec. 2, 1951, result of abnormally low shutdown of Blewett Falls hydroelectric plant to produce steady flow for current-meter measurements at this gaging station; minimum discharge from normal regulations, 96 cfs Oct. 25, 1943; minimum daily, 120 cfs Oct. 8, 1961.

REMARKS.--Records good. Flow regulated since 1928 by Blewett Falls Lake and five other reservoirs upstream. (See p. 144). Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822 Drainage area. WSP 1203: 1928-37. WSP 1303: 1928-42 (monthly and yearly runoff), 1943-46 (adjusted monthly runoff). WSP 1503: 1906-12, 1928-32(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,810	8,660	9,690	8,740	9,770	8,910	13,600	5,040	12,300	7,760	3,010	3,180
2	9,030	7,080	9,250	6,490	23,800	9,410	13,800	5,180	9,330	7,700	6,530	1,480
3	9,290	8,470	9,160	7,930	30,700	9,380	11,400	6,120	9,080	7,740	7,770	838
4	9,930	14,400	9,090	8,920	42,900	9,620	10,600	9,030	5,320	7,100	6,680	359
5	9,310	24,200	9,110	8,530	27,300	9,380	9,940	9,150	4,400	7,820	5,700	4,560
6	9,110	15,200	11,900	7,760	16,900	9,400	9,480	9,220	6,950	7,860	537	2,970
7	9,180	10,900	16,400	7,610	14,700	9,190	9,250	9,290	5,470	7,920	4,890	3,630
8	9,220	10,200	14,300	8,550	14,100	8,990	7,690	9,210	3,970	7,900	4,820	3,620
9	4,900	9,690	12,600	9,020	12,500	8,900	2,980	9,220	7,440	7,870	4,650	1,040
10	10,000	9,440	10,800	9,380	11,500	7,010	5,650	10,100	2,460	7,700	6,010	392
11	29,900	9,420	9,910	39,400	11,100	4,030	7,870	10,500	1,980	4,920	5,110	2,890
12	15,700	9,350	9,510	32,100	10,600	2,250	8,680	9,420	4,520	8,510	4,990	4,840
13	11,100	9,350	9,220	20,800	10,200	5,010	10,700	9,320	3,610	7,730	245	4,210
14	8,710	9,290	9,510	25,200	14,200	6,080	12,400	9,450	6,490	5,730	1,350	3,560
15	5,210	8,680	9,940	19,900	14,000	5,460	11,200	21,100	5,880	2,080	3,190	3,640
16	11,500	7,390	10,100	15,200	12,300	5,220	9,930	45,400	4,100	1,030	4,500	936
17	37,600	7,160	10,100	12,900	11,500	8,390	9,370	31,700	1,540	5,910	6,800	493
18	19,500	7,770	10,300	11,900	11,600	5,310	9,240	17,400	604	6,950	7,870	3,590
19	12,600	6,360	9,840	10,700	12,600	7,860	9,140	13,300	6,370	4,850	1,240	4,520
20	10,100	7,900	9,310	9,210	15,700	5,440	9,060	18,900	9,460	5,230	305	3,860
21	8,940	7,970	10,200	9,380	12,400	5,030	8,930	17,600	25,000	6,560	4,030	4,840
22	7,190	8,020	12,100	10,000	12,100	7,410	8,890	14,100	77,200	5,960	3,060	2,720
23	9,270	7,660	10,500	9,820	11,500	11,300	5,410	14,700	93,400	1,520	3,680	1,960
24	19,900	7,650	9,390	9,660	10,900	10,900	5,150	14,400	72,700	4,890	3,640	637
25	57,000	10,100	9,330	9,580	10,500	9,480	9,050	12,400	23,800	4,050	3,100	4,040
26	64,000	14,600	9,170	9,980	10,100	9,290	9,020	12,000	14,200	4,330	765	4,700
27	44,800	11,000	9,100	10,300	10,100	9,280	8,910	10,400	11,800	4,720	563	3,760
28	20,500	10,500	9,020	9,320	9,490	9,300	7,250	10,200	10,700	6,770	1,260	7,800
29	13,300	11,200	8,960	9,180	9,200	9,350	5,790	8,760	8,370	5,980	764	6,490
30	10,300	9,810	8,660	9,270	------	9,410	2,080	7,780	7,800	1,640	2,040	4,650
31	9,800	------	8,840	9,320	------	10,700	------	12,400	------	4,040	4,390	------
TOTAL	515,700	299,420	315,310	386,050	424,260	246,690	262,460	402,790	456,244	180,770	113,489	96,205
MEAN	16,640	9,981	10,170	12,450	14,630	7,958	8,749	12,990	15,210	5,831	3,661	3,207
MAX	64,000	24,200	16,400	39,400	42,900	11,300	13,800	45,400	93,400	8,510	7,870	7,800
MIN	4,900	6,360	8,660	6,490	9,200	2,250	2,080	5,040	604	1,030	245	359
(†)	+856	-1,358	-326	+467	-397	+291	+370	+533	+334	-693	-352	-436

CAL YR 1971 TOTAL 3,748,070 MEAN 10,270 MAX 76,200 MIN 432 MEAN‡ 10,290 CFSM‡ 1.50 IN‡ 20.34
WTR YR 1972 TOTAL 3,699,388 MEAN 10,110 MAX 93,400 MIN 245 MEAN‡ 10,050 CFSM‡ 1.46 IN‡ 19.91

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir, furnished by Corps of Engineers; High Rock and Badin Lakes, furnished by Yadkin, Inc.; Tuckertown Reservoir, furnished by Duke Power Co.; and Lake Tillery and Blewett Falls Lake, furnished by Carolina Power and Light Co.

‡ Adjusted for change in contents.

02133500 Drowning Creek near Hoffman, N. C.

LOCATION.--Lat 35°03'38", long 79°29'39", Richmond County, on right bank 10 ft downstream from bridge on U. S. Highway 1, 0.8 mile downstream from Deep Creek, 1 mile upstream from Seaboard Coast Line Railroad bridge, and 4 miles northeast of Hoffman.

DRAINAGE AREA.--178 sq mi.

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft (from topographic map).

AVERAGE DISCHARGE.--33 years, 259 cfs (19.76 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,270 cfs June 22 (gage height, 6.64 ft); minimum, 78 cfs Sept. 15, 16; minimum gage height, 2.32 ft Sept. 16.
Period of record: Maximum discharge, 10,900 cfs Sept. 18, 1945 (gage height, 10.29 ft); minimum, 22 cfs Oct. 5, 1968.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 972: 1941(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	433	324	220	377	355	323	185	299	331	220	101
2	292	440	304	217	538	321	347	180	308	286	280	104
3	478	445	288	217	677	301	347	215	298	212	350	101
4	580	415	278	215	892	289	320	364	252	204	360	96
5	520	365	288	214	878	280	290	479	200	190	330	144
6	393	329	325	214	763	273	280	405	180	215	270	175
7	320	319	360	214	609	266	272	283	170	241	280	160
8	311	316	369	207	500	261	278	212	166	223	290	123
9	345	293	355	202	449	256	303	235	162	175	270	105
10	392	276	331	242	417	252	320	284	158	151	260	97
11	425	267	304	450	385	247	308	304	145	142	280	90
12	489	261	281	744	364	241	283	305	143	169	250	86
13	606	259	269	901	403	237	300	234	139	211	220	83
14	472	254	263	795	446	236	359	215	138	240	200	81
15	354	249	262	709	517	237	405	266	131	200	220	79
16	308	244	259	652	522	239	380	323	123	160	142	79
17	324	239	264	539	440	295	303	342	117	161	116	88
18	408	234	287	425	396	359	257	321	115	184	114	120
19	529	230	306	364	438	412	235	362	121	212	119	147
20	463	232	303	339	472	380	222	506	168	194	138	124
21	367	236	306	342	482	305	217	704	548	170	153	105
22	323	235	308	352	449	278	221	760	1,160	136	120	104
23	339	228	304	362	386	288	235	622	1,080	124	105	102
24	421	225	298	367	351	308	245	557	655	126	99	98
25	547	252	274	347	340	308	260	565	395	151	90	95
26	683	298	251	315	338	290	303	498	275	200	88	92
27	722	340	241	291	350	285	280	408	214	260	86	88
28	644	369	236	275	364	305	234	346	193	300	90	128
29	517	371	235	270	371	305	206	303	233	210	138	219
30	438	335	230	291	------	295	194	276	297	200	150	543
31	423	------	224	338	------	303	------	280	------	210	114	------
TOTAL	13,590	8,989	8,927	11,630	13,914	9,007	8,527	11,339	8,583	6,188	5,942	3,757
MEAN	438	300	288	375	480	291	284	366	286	200	192	125
MAX	722	445	369	901	892	412	405	760	1,160	331	360	543
MIN	157	225	224	202	338	236	194	180	115	124	86	79
CFSM	2.46	1.69	1.62	2.11	2.70	1.63	1.60	2.06	1.61	1.12	1.08	.70
IN.	2.84	1.88	1.87	2.43	2.91	1.88	1.78	2.37	1.79	1.29	1.24	.79

CAL YR 1971 TOTAL 119,335 MEAN 327 MAX 1,340 MIN 95 CFSM 1.84 IN 24.94
WTR YR 1972 TOTAL 110,393 MEAN 302 MAX 1,160 MIN 79 CFSM 1.70 IN 23.07

PEAK DISCHARGE (BASE, 850 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-13	1300	6.28	954	6-22	1430	6.64	1,270
2- 4	2130	6.25	930				

02134500 Lumber River at Boardman, N. C.

LOCATION.--Lat 34°26'32", long 78°57'38", Robeson County, on right bank 50 ft downstream from bridge on U. S. Highway 74, 1 mile downstream from Seaboard Coast Line Railroad bridge at Boardman, 1.5 miles downstream from Big Swamp, and 40.5 miles upstream from mouth.

DRAINAGE AREA.--1,220 sq mi, approximately.

PERIOD OF RECORD.--September 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 72.05 ft above mean sea level (levels by Corps of Engineers). Prior to Sept. 30, 1936, nonrecording gage at site 100 ft downstream at same datum. Sept. 30, 1936, to June 8, 1943, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--43 years, 1,308 cfs (14.56 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,740 cfs Feb. 7 (gage height, 8.22 ft); minimum, 308 cfs Sept. 17 (gage height, 2.09 ft).
Period of record: Maximum discharge, 13,400 cfs Sept. 24, 1945 (gage height, 10.64 ft); minimum, 66 cfs Oct. 9, 1968.
Flood of August 1928 reached a stage of 11.8 ft, from floodmark witnessed by local resident (discharge, 25,000 cfs).
Flood of July 22, 1901, the highest during the period 1896-1913, reached a stage of 10.8 ft, from observations by Butters Lumber Co. (discharge, 14,800 cfs).

REMARKS.--Records excellent. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 892: Drainage area. WSP 1303: 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	683	2,400	1,100	1,270	2,350	2,350	1,810	994	1,480	1,390	684	449
2	923	2,400	1,150	1,220	2,700	2,270	1,810	974	1,350	1,250	718	439
3	1,080	2,340	1,200	1,170	3,330	2,170	1,780	970	1,220	1,080	777	436
4	1,390	2,340	1,250	1,130	4,050	2,080	1,740	1,070	1,150	968	806	419
5	1,730	2,330	1,300	1,080	4,390	1,990	1,750	1,140	1,080	926	824	475
6	1,900	2,250	1,350	1,040	4,610	1,910	1,680	1,180	1,030	943	852	455
7	1,880	2,170	1,390	1,010	4,700	1,820	1,620	1,150	1,090	946	857	479
8	1,810	2,070	1,440	972	4,720	1,740	1,630	1,080	1,060	976	837	487
9	1,830	1,970	1,480	951	4,650	1,670	1,630	1,030	949	1,020	720	489
10	2,050	1,860	1,490	971	4,540	1,580	1,550	961	875	1,010	687	475
11	2,320	1,770	1,470	1,060	4,340	1,500	1,530	960	839	987	623	426
12	2,420	1,690	1,470	1,140	4,090	1,430	1,540	1,010	800	1,000	571	418
13	2,440	1,620	1,480	1,350	4,050	1,400	1,550	1,070	711	1,020	532	407
14	2,360	1,520	1,470	1,560	3,850	1,330	1,540	1,090	560	988	461	411
15	2,220	1,430	1,440	2,000	3,500	1,240	1,530	1,080	481	942	430	391
16	2,160	1,350	1,420	2,440	3,440	1,220	1,520	1,020	452	900	409	344
17	2,130	1,270	1,450	2,990	3,310	1,340	1,480	936	436	868	422	319
18	2,060	1,210	1,470	3,370	3,160	1,340	1,440	904	403	854	430	366
19	2,040	1,140	1,430	3,800	3,120	1,350	1,390	949	414	805	406	392
20	2,040	1,080	1,410	4,090	3,080	1,390	1,350	976	484	773	391	355
21	2,030	1,020	1,390	4,240	3,090	1,440	1,300	950	645	761	412	384
22	2,040	980	1,360	4,170	3,060	1,560	1,260	1,040	775	740	432	447
23	2,070	960	1,340	3,950	2,980	1,660	1,270	1,110	812	712	435	523
24	2,100	940	1,330	3,670	2,890	1,720	1,240	1,120	794	659	426	559
25	2,270	920	1,340	3,380	2,780	1,780	1,270	1,150	807	629	384	559
26	2,330	920	1,350	3,090	2,700	1,880	1,260	1,200	815	663	368	529
27	2,340	940	1,360	2,810	2,640	1,920	1,190	1,270	848	716	395	468
28	2,350	980	1,360	2,560	2,560	1,930	1,090	1,360	1,030	697	463	451
29	2,400	1,000	1,350	2,420	2,450	1,880	1,040	1,520	1,270	676	480	425
30	2,400	1,050	1,350	2,390	------	1,810	1,010	1,570	1,380	654	497	393
31	2,450	------	1,310	2,360	------	1,820	------	1,510	------	654	480	------
TOTAL	62,246	46,010	42,500	89,660	101,170	52,520	43,850	34,344	26,040	27,207	17,209	13,170
MEAN	2,008	1,534	1,371	2,247	3,489	1,694	1,462	1,108	868	878	555	439
MAX	2,450	2,400	1,490	4,240	4,720	2,350	1,810	1,570	1,480	1,390	857	559
MIN	683	920	1,100	951	2,350	1,220	1,010	904	403	629	368	319
CFSM	1.65	1.26	1.12	1.84	2.86	1.39	1.20	.91	.71	.72	.45	.36
IN.	1.90	1.40	1.30	2.12	3.08	1.60	1.34	1.05	.79	.83	.52	.40

CAL YR 1971 TOTAL 655,602 MEAN 1,796 MAX 9,700 MIN 372 CFSM 1.47 IN 19.99
WTR YR 1972 TOTAL 535,926 MEAN 1,464 MAX 4,720 MIN 319 CFSM 1.20 IN 16.34

02137000 Mill Creek at Old Fort, N. C.

LOCATION.--Lat 35°37'59", long 82°11'14", McDowell County, on right bank at downstream side of bridge on Secondary Road 1119, 2,200 ft downstream from Jarrett Creek, 0.5 mile northwest of Old Fort, and 1 mile upstream from mouth.

DRAINAGE AREA.--20.7 sq mi.

PERIOD OF RECORD.--May to December 1907, (gage heights and discharge measurements only), August 1930 to July 1931, April 1960 to current year. Records of discharge for 1907, published in WSP 242, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 1,445.92 ft above mean sea level. May to September 1907, nonrecording gage at site 0.2 mile downstream at different datum. August 1930 to July 1931, nonrecording gage at present site at datum 1.00 ft lower.

AVERAGE DISCHARGE.--12 years (1960-72), 40.7 cfs (26.69 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,560 cfs June 20 (gage height, 6.77 ft); minimum, 10 cfs Oct. 7, 14, 15 (gage height, 1.23 ft).
Period of record: Maximum discharge, 1,700 cfs Feb. 13, 1966 (gage height, 7.00 ft); minimum, 4.7 cfs Sept. 3, 4, 1930.
Flood of Aug. 13, 1940 reached a stage of 11.1 ft, from floodmarks (discharge, 7,880 cfs). Flood in July 1916 reached a stage about 4 ft higher than that of Aug. 13, 1940, from information by local residents.
A discharge of 3.02 cfs was measured on Oct. 10, 1954.

REMARKS.--Records good. Some regulation at times during periods of low flow caused by reservoirs in the headwaters. Town of Old Fort diverted about 0.3 cfs for municipal water supply.

REVISIONS (WATER YEARS).--WSP 1503: 1931. See PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	219	35	34	38	39	68	36	44	46	36	17
2	17	211	34	37	38	40	62	35	42	45	33	16
3	14	149	38	35	44	41	56	85	40	42	30	16
4	12	110	41	45	40	38	53	56	39	50	28	16
5	12	88	42	42	38	37	49	48	38	58	27	29
6	12	76	101	40	38	35	46	45	37	43	27	22
7	11	68	294	38	38	35	44	44	37	41	29	18
8	12	60	158	37	36	37	44	68	35	39	28	17
9	16	56	104	41	35	34	40	55	34	38	25	16
10	15	53	84	61	35	33	40	47	33	38	26	16
11	12	49	71	138	34	33	43	44	32	36	27	15
12	11	45	63	93	39	32	74	42	31	35	26	15
13	11	44	57	134	56	31	64	51	31	36	26	14
14	11	42	53	153	45	31	56	227	30	35	26	13
15	38	41	52	99	42	30	49	114	30	33	24	13
16	84	39	49	78	41	34	46	83	30	33	23	12
17	31	38	46	68	41	34	42	70	30	42	23	14
18	26	37	42	63	41	31	40	65	37	44	21	15
19	24	37	42	57	40	30	39	78	36	45	21	13
20	23	35	46	54	38	30	38	88	648	43	20	12
21	96	34	42	52	37	33	43	81	499	36	20	13
22	468	33	40	54	40	78	58	72	178	37	20	12
23	301	33	39	51	40	48	52	72	115	41	19	12
24	219	38	39	48	40	42	46	66	88	38	26	13
25	123	37	38	45	41	42	43	59	74	35	23	12
26	87	35	38	42	45	42	41	54	65	33	21	12
27	69	37	37	42	42	46	40	50	59	31	23	13
28	58	35	36	42	40	48	38	48	58	31	20	16
29	52	40	35	40	39	59	38	47	56	34	18	21
30	48	38	37	40	------	59	37	52	49	32	17	51
31	88	------	36	38	------	69	------	49	------	39	17	------
TOTAL	2,018	1,857	1,869	1,841	1,161	1,251	1,429	2,041	2,555	1,209	750	494
MEAN	65.1	61.9	60.3	59.4	40.0	40.4	47.6	65.8	85.2	39.0	24.2	16.5
MAX	468	219	294	153	56	78	74	227	648	58	36	51
MIN	11	33	34	34	34	30	37	35	30	31	17	12
CFSM	3.14	2.99	2.91	2.87	1.93	1.95	2.30	3.18	4.12	1.88	1.17	.80
IN.	3.63	3.34	3.36	3.31	2.09	2.25	2.57	3.67	4.59	2.17	1.35	.89

CAL YR 1971 TOTAL 15,743 MEAN 43.1 MAX 468 MIN 11 CFSM 2.08 IN 28.29
WTR YR 1972 TOTAL 18,475 MEAN 50.5 MAX 648 MIN 11 CFSM 2.44 IN 33.20

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-22	0900	4.78	684	6-20	2300	6.77	1,560

02138000 Catawba River near Marion, N. C.

LOCATION.--Lat 35°42'26", long 82°02'00", McDowell County, on right bank 15 ft downstream from bridge on U. S. Highway 221, 0.2 mile downstream from Tom Creek, 2.2 miles northwest of Marion, and at mile 294. Records include flow of small tributary on right bank 250 ft downstream.

DRAINAGE AREA.--171 sq mi (including area of small downstream tributary).

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,208 ft above mean sea level.

AVERAGE DISCHARGE.--31 years, 327 cfs (26.00 inches per year).

EXTREMES.--Current year: Maximum discharge, 13,300 cfs June 21 (gage height, 13.76 ft); minimum, 103 cfs Oct. 9 (gage height, 1.06 ft); minimum daily, 112 cfs Sept. 23.
Period of record: Maximum discharge, 19,700 cfs Aug. 28, 1949 (gage height, 15.02 ft); from rating curve extended as explained below; minimum, 28 cfs Sept. 30, Oct. 1, 5, 1954 (gage height, 0.50 ft).
Flood of Aug. 13, 1940 reached a stage of 19.34 ft (discharge, 71,400 cfs, from rating curve extended above 10,000 cfs on basis of contracted opening measurements at gage height 15.02 ft and 19.34 ft).

REMARKS.--Records good. Some diurnal fluctuation and regulation for short periods of low flow caused by Lake Tahoma hydroelectric plant above station. About 3.0 cfs is diverted by the town of Marion for water supply. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1032: 1942, 1943(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	1,440	308	225	296	304	520	268	368	405	525	148
2	122	1,800	288	292	320	328	480	252	328	384	348	130
3	114	1,180	308	296	376	340	420	1,290	272	364	288	126
4	128	852	304	384	344	237	410	684	320	372	272	135
5	148	666	360	388	280	260	368	475	308	540	213	228
6	146	570	1,020	344	260	284	348	376	280	384	234	225
7	135	515	2,390	328	320	264	336	324	288	352	248	189
8	122	480	1,480	280	316	288	292	495	272	312	272	156
9	122	440	939	272	308	280	308	515	248	304	204	135
10	144	415	738	495	292	252	300	415	213	300	234	126
11	126	388	606	888	272	204	292	368	237	300	225	142
12	142	340	530	714	248	201	450	324	244	296	189	148
13	132	320	480	965	540	248	415	360	234	304	222	128
14	130	344	440	1,310	420	268	364	2,620	228	288	228	164
15	252	340	425	792	372	248	300	1,110	225	237	213	139
16	878	332	405	590	352	284	324	756	219	308	204	116
17	303	312	388	510	364	268	316	595	231	332	198	126
18	258	292	336	470	364	204	284	525	332	380	177	164
19	240	272	340	440	304	216	276	660	284	312	158	151
20	222	225	396	415	292	234	280	798	4,470	332	158	142
21	550	240	368	410	320	248	312	804	7,280	276	201	130
22	3,540	264	348	415	340	690	396	738	1,560	222	207	114
23	2,590	268	336	415	340	430	405	702	998	237	169	112
24	2,030	296	336	388	344	344	372	590	780	292	167	122
25	1,110	292	296	368	320	284	336	510	648	336	169	144
26	774	316	244	352	272	320	300	450	565	296	164	139
27	590	288	284	352	272	372	296	410	505	276	201	151
28	495	284	312	340	320	372	268	380	485	237	210	169
29	420	372	300	264	312	435	219	376	490	244	183	213
30	376	360	296	300	------	445	252	392	430	296	167	545
31	798	------	304	312	------	535	------	405	------	435	158	------
TOTAL	17,301	14,503	15,905	14,314	9,480	9,687	10,239	18,967	23,342	9,953	6,806	4,857
MEAN	558	483	513	462	327	312	341	612	778	321	220	162
MAX	3,540	1,800	2,390	1,310	540	690	520	2,620	7,280	540	525	545
MIN	114	225	244	225	248	201	219	252	213	222	158	112
CFSM	3.26	2.82	3.00	2.70	1.91	1.82	1.99	3.58	4.55	1.88	1.29	.95
IN.	3.76	3.16	3.46	3.11	2.06	2.11	2.23	4.13	5.08	2.17	1.48	1.06

CAL YR 1971 TOTAL 128,548 MEAN 352 MAX 3,540 MIN 114 CFSM 2.06 IN 27.96
WTR YR 1972 TOTAL 155,354 MEAN 424 MAX 7,280 MIN 112 CFSM 2.48 IN 33.80

PEAK DISCHARGE (BASE, 3,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-22	1530	9.50	5,510	6-21	0500	13.76	13,300
5-14	0800	7.21	4,060				

02138500 Linville River near Nebo, N. C.

LOCATION.--Lat 35°47'43", long 81°53'27", Burke County, in Pisgah National Forest, on right bank 280 ft upstream from bridge on State Highway 126, 0.2 mile downstream from Shooks Creek, 0.5 mile upstream from Lake James, 2.0 miles northeast of Longtown, and 6.0 miles northeast of Nebo.

DRAINAGE AREA.--67.2 sq mi.

PERIOD OF RECORD.--May 1907 to August 1908 (fragmentary). June 1922 to current year. Published as "at Fonta Flora" prior to 1908 and as "at Branch" 1923-70. Records for October to December 1908, "at Fonta Flora", published in WSP 242 have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,205.87 ft above mean sea level. May 1907 to August 1908 nonrecording gage about 1.2 miles downstream at different datum. June 1922 to Aug. 27, 1937, nonrecording gage, and Aug. 28, 1937 to Sept. 30, 1970, water-stage recorder at site 300 ft downstream at same datum.

AVERAGE DISCHARGE.--50 years (1922-72), 143 cfs 28.90 inches per year).

EXTREMES.--Current year: Maximum discharge, 17,500 cfs June 20 (gage height, 8.29 ft) from rating curve extended as explained below; minimum, 29 cfs Sept. 22, 23 (gage height, 1.10 ft).
Period of record: Maximum discharge, 39,500 cfs Aug. 13, 1940 (gage height, 11.4 ft), from rating curve extended above 6,400 cfs on basis of slope-area measurement of peak flow; minimum, 2 cfs Jan. 9, 1956 (result of freezeup); minimum daily, 8 cfs Sept. 7-9, 1925.
Flood of July 1916 reached a stage of about 11 ft (discharge, 34,600 cfs).

REMARKS.--Records good except those after April, which are poor.

REVISIONS (WATER YEARS).--WSP 892: 1929, 1935, 1937. WSP 1503: 1923(M), 1924-28, 1930, 1932-33(M), 1938(M), 1939(P). WSP 1723: Drainage area. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	1,140	115	105	110	183	203	114	121	125	69	35
2	78	1,230	104	108	113	173	229	105	109	112	88	35
3	80	896	109	115	122	243	200	470	105	114	82	34
4	71	602	127	125	144	193	184	312	94	99	70	35
5	67	407	132	178	127	171	179	241	94	123	65	72
6	68	320	240	145	121	154	164	204	90	105	61	109
7	62	277	1,210	130	117	144	154	142	86	96	62	58
8	56	236	727	120	105	143	256	167	81	85	62	48
9	59	200	433	118	103	132	209	213	75	83	57	45
10	73	180	336	186	101	121	178	194	75	80	56	42
11	67	165	285	300	99	116	167	178	75	75	53	41
12	58	155	241	290	104	112	221	175	73	74	50	41
13	54	145	223	300	218	109	260	178	73	73	50	40
14	52	135	194	501	189	108	213	696	71	72	50	39
15	57	123	179	311	161	105	190	430	69	72	50	37
16	162	117	169	239	156	111	172	300	68	75	60	32
17	127	112	158	210	150	141	157	243	105	80	60	32
18	91	107	143	195	149	119	143	204	102	75	50	35
19	81	103	131	178	142	107	133	207	90	78	50	34
20	104	101	147	169	143	101	127	216	8,000	64	45	32
21	481	98	153	165	129	102	129	267	5,500	62	45	30
22	3,150	93	133	170	141	311	193	264	900	60	40	30
23	1,690	89	122	185	165	233	229	297	450	60	40	30
24	1,710	102	118	160	152	180	167	303	320	58	36	31
25	681	106	116	148	166	164	150	255	250	58	38	32
26	424	93	112	136	225	158	140	220	200	56	39	32
27	315	95	109	130	293	162	130	180	165	58	41	32
28	262	95	106	133	225	175	125	150	170	66	39	33
29	223	110	101	134	200	173	120	140	160	72	37	67
30	195	146	102	123	------	200	115	120	147	77	36	81
31	607	------	121	116	------	208	------	120	------	80	36	------
TOTAL	11,281	7,778	6,696	5,623	4,370	4,852	5,241	7,304	17,942	2,461	1,616	1,274
MEAN	364	259	216	181	151	157	175	236	598	79.4	52.1	42.5
MAX	3,150	1,230	1,210	501	293	311	260	696	8,000	125	88	109
MIN	52	89	101	105	99	101	115	105	68	56	36	30
CFSM	5.42	3.85	3.21	2.69	2.25	2.34	2.60	3.51	8.90	1.18	.78	.63
IN.	6.24	4.31	3.71	3.11	2.42	2.69	2.90	4.04	9.93	1.36	.89	.71

CAL YR 1971 TOTAL 63,138 MEAN 173 MAX 3,150 MIN 40 CFSM 2.57 IN 34.95
WTR YR 1972 TOTAL 76,438 MEAN 209 MAX 8,000 MIN 30 CFSM 3.11 IN 42.31

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-22	1330	7.03	4,710	12- 7	1430	5.14	1,630
10-24	0200	5.82	2,480	6-20	2130	8.29	17,500
11- 2	0500	5.15	1,640				

02139650 East Prong near Morganton, N. C.

LOCATION.--Lat 35°44'29", long 81°39'39", Burke County, on right bank 55 ft downstream from bridge on Secondary Road 1704, 0.5 mile upstream from mouth, and 1.4 miles east of courthouse, Morganton.

DRAINAGE AREA.--8.94 sq mi.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,032.77 ft above mean sea level (city of Morganton bench mark).

AVERAGE DISCHARGE.--6 years, 12.9 cfs (19.55 inches per year).

EXTREMES.--Current year: Maximum discharge, 820 cfs June 21, (gage height, 8.84 ft); minimum, 4.8 cfs Sept. 13, 16, 17 (gage height, 2.01 ft).
Period of record: Maximum discharge, 935 cfs Aug. 9, 1970 (gage height, 9.07 ft); minimum, 4.2 cfs Sept. 8, 1968.
Flood of Aug. 13, 1940 reached a stage of about 15 ft, from information by local resident.

REMARKS.--Records fair. Recording rain gage located at station.

REVISIONS (WATER YEARS).--WSP 2104: 1969(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	26	13	9.7	10	11	15	9.8	8.3	9.8	17	6.5
2	9.4	20	13	11	11	13	14	9.8	8.6	9.8	16	6.2
3	8.0	22	13	9.6	13	12	13	14	8.3	9.4	14	5.8
4	8.0	17	14	13	11	10	13	18	8.3	12	14	5.8
5	8.0	15	15	12	11	10	12	12	7.9	16	13	7.6
6	8.1	14	59	11	11	9.8	12	11	7.9	12	13	6.9
7	7.7	13	197	10	11	11	12	10	7.6	11	13	6.5
8	7.7	12	47	10	11	12	13	16	7.2	11	12	6.5
9	13	11	25	12	10	11	12	14	8.6	11	12	6.2
10	9.5	11	20	17	11	10	11	12	8.6	10	12	5.8
11	8.0	10	18	32	11	10	11	11	8.3	11	12	6.2
12	8.2	9.9	16	20	14	10	15	11	7.6	11	11	5.8
13	8.1	9.7	15	60	34	9.9	12	12	7.6	11	11	5.8
14	7.3	9.5	14	53	19	9.8	12	59	7.2	10	10	5.8
15	7.4	9.4	15	23	16	9.8	12	17	7.2	10	10	5.8
16	18	9.1	14	18	15	12	12	14	7.2	12	10	5.5
17	11	9.0	13	16	15	11	11	12	40	13	10	5.8
18	9.9	8.8	13	14	16	10	10	11	17	9.8	11	6.5
19	8.8	8.9	12	13	15	9.8	11	11	12	9.0	10	6.2
20	9.8	9.1	13	14	14	9.4	10	12	236	8.3	10	6.2
21	12	8.9	12	14	13	11	11	12	345	12	9.8	5.8
22	167	8.4	11	14	13	33	15	11	25	9.8	9.8	6.2
23	183	8.6	11	14	12	15	12	12	17	8.6	9.8	5.8
24	80	12	11	13	12	14	12	11	15	9.0	10	5.8
25	30	12	11	13	12	13	12	12	13	21	6.9	6.2
26	21	11	10	12	13	13	11	11	12	12	6.9	5.8
27	18	12	9.4	12	11	12	11	11	11	11	6.9	6.2
28	16	12	9.4	12	11	12	11	11	11	10	7.2	6.5
29	15	17	8.3	11	11	12	10	11	11	146	6.5	11
30	15	15	8.7	11	------	12	10	10	10	48	6.5	31
31	38	------	9.8	10	------	16	------	8.6	------	20	6.9	------
TOTAL	779.9	371.3	670.6	514.3	387	374.5	358	417.2	901.4	524.5	328.2	213.7
MEAN	25.2	12.4	21.6	16.6	13.3	12.1	11.9	13.5	30.0	16.9	10.6	7.12
MAX	183	26	197	60	34	33	15	59	345	146	17	31
MIN	7.3	8.4	8.3	9.6	10	9.4	10	8.6	7.2	8.3	6.5	5.5
CFSM	2.82	1.39	2.42	1.86	1.49	1.35	1.33	1.51	3.36	1.89	1.19	.80
IN.	3.25	1.55	2.79	2.14	1.61	1.56	1.49	1.74	3.75	2.18	1.37	.89

CAL YR 1971 TOTAL 5,357.2 MEAN 14.7 MAX 197 MIN 6.3 CFSM 1.64 IN 22.29
WTR YR 1972 TOTAL 5,840.6 MEAN 16.0 MAX 345 MIN 5.5 CFSM 1.79 IN 24.30

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-22	1015	7.56	435	1-13	2200	6.72	325
10-23	2015	7.37	404	6-21	0230	8.84	820
12- 7	1015	7.42	412	7-29	2100	8.45	640

02141150 Lower Creek at Mulberry Street at Lenoir, N. C.

LOCATION.--Lat 35°54'20", long 81°31'59", Caldwell County, on left bank at upstream side of bridge on Mulberry Street, 1,100 ft downstream from Zacks Fork Creek, and 0.8 mile southeast of courthouse, Lenoir.

DRAINAGE AREA.--31.8 sq mi.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,071.45 ft above mean sea level.

AVERAGE DISCHARGE.--6 years, 34.4 cfs (14.69 inches per year).

EXTREMES.--Current year: Maximum discharge, 902 cfs Oct. 16 (gage height, 5.84 ft); minimum, 9.5 cfs Sept. 19, 20, 21, 22, 27, 28 (gage height, 0.68 ft); minimum daily, 11 cfs Aug. 31, Sept. 16, 20, 21, 22, 26, 27.
Period of record: Maximum discharge, 3,430 cfs Aug. 10, 1970 (gage height, 11.03 ft in gage well, 11.50 ft, from outside gage); minimum, 5.8 cfs July 17, 1970; minimum daily, 7.7 cfs July 17, 20, 1970; minimum gage height, 0.55 ft Oct. 1, 1968, July 17, 1970.
The flood of Aug. 13, 1940 reached a stage of 1,087.0 ft above mean sea level (discharge, 20,000 cfs) at mouth of Zacks Fork Creek 1,100 ft upstream.

REMARKS.--Records good. At times slight fluctuation and diversions by industrial and recreational development. About 0.8 cfs is diverted by City of Lenoir for water supply and wasted into Lower Creek. Since 1940 various creek channel improvements and changes related to highway and industrial development. A significant channel change occurred in 1969 as a result of construction.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	50	35	28	32	38	61	35	29	27	19	12
2	27	62	32	32	34	45	53	32	28	27	24	12
3	22	248	35	28	49	45	47	155	27	27	21	12
4	20	85	39	45	39	40	44	115	26	28	20	12
5	19	56	45	41	35	38	40	64	26	33	20	31
6	18	45	106	35	36	36	38	47	27	25	20	18
7	17	41	299	33	35	35	50	41	27	24	20	15
8	16	36	117	32	32	37	68	65	25	24	19	14
9	39	36	72	38	32	33	47	55	25	25	17	14
10	36	35	58	70	31	32	43	43	24	24	18	14
11	23	32	51	137	30	31	41	39	24	22	19	13
12	21	31	45	81	41	31	76	36	23	23	19	13
13	20	31	41	233	123	30	54	39	23	23	20	13
14	19	29	39	215	61	30	48	178	22	22	18	12
15	30	28	40	86	50	29	45	76	21	22	16	12
16	307	28	37	62	44	44	43	56	30	24	16	11
17	58	27	35	51	47	40	40	46	27	24	16	13
18	40	27	33	47	48	34	38	43	26	22	20	14
19	33	27	33	45	46	33	37	40	24	21	18	12
20	30	27	43	42	40	31	37	45	145	19	17	11
21	32	25	36	50	38	38	40	100	437	19	16	11
22	132	24	33	47	37	110	61	57	71	18	15	11
23	264	24	32	45	37	54	49	58	49	19	14	12
24	348	37	32	41	37	45	43	46	40	18	14	13
25	113	41	31	39	36	44	42	40	37	18	13	12
26	70	34	31	37	45	47	40	36	33	17	14	11
27	54	37	30	36	40	45	38	34	31	17	15	11
28	44	35	28	36	37	42	37	34	29	18	14	15
29	41	48	28	35	37	45	37	32	30	24	12	144
30	37	42	29	35	------	41	36	35	28	22	12	142
31	72	------	30	32	------	71	------	32	------	21	11	------
TOTAL	2,024	1,328	1,575	1,814	1,229	1,294	1,373	1,754	1,414	697	527	660
MEAN	65.3	44.3	50.8	58.5	42.4	41.7	45.8	56.6	47.1	22.5	17.0	22.0
MAX	348	248	299	233	123	110	76	178	437	33	24	144
MIN	16	24	28	28	30	29	36	32	21	17	11	11
CFSM	2.05	1.39	1.60	1.84	1.33	1.31	1.44	1.78	1.48	.71	.53	.69
IN.	2.37	1.55	1.84	2.12	1.44	1.51	1.61	2.05	1.65	.82	.62	.77

CAL YR 1971 TOTAL 14,695 MEAN 40.3 MAX 348 MIN 15 CFSM 1.27 IN 17.19
WTR YR 1972 TOTAL 15,689 MEAN 42.9 MAX 437 MIN 11 CFSM 1.35 IN 18.35

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-16	0330	5.84	902	1-13	2130	5.19	746
10-24	0100	5.00	700	6-21	0545	5.40	796
11- 3	0830	4.04	508				

02142000 Lower Little River near All Healing Springs, N. C.

LOCATION.--Lat 35°56'50", long 81°13'57", Alexander County, on left bank at upstream side of bridge on Secondary Road 1313, 0.3 mile downstream from Grassy Creek, 0.4 mile upstream from Lambert Creek, 2.2 miles northeast of All Healing Springs, and 4 miles northwest of Taylorsville.

DRAINAGE AREA.--31.2 sq mi.

PERIOD OF RECORD.--October to December 1952 (monthly discharge only), January 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,070 ft (by barometer). Prior to June 13, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--20 years, 35.0 cfs (15.26 inches per year).

EXTREMES.--Water year 1971: Maximum discharge, 1,580 cfs Feb. 22 (gage height, 10.28 ft); minimum, 12 cfs part of each day Oct. 4-8, 16-20 (gage height, 1.04 ft).
Water year 1972: Maximum discharge, 2,230 cfs June 21 (gage height, 12.17 ft); minimum, 12 cfs part of each day Sept. 15-17, 19-23; minimum gage height, 1.07 ft Sept. 16, 19, 20.
Period of record: Maximum discharge, 4,850 cfs Aug. 10, 1970 (gage height, 15.68 ft); minimum, 2.9 cfs Sept. 20, 21, 1955.

REMARKS.--Records good except those for period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	51	18	18	17	48	34	34	25	25	35	17
2	14	39	17	18	17	51	36	31	23	24	50	18
3	13	35	17	19	17	101	33	28	23	22	70	17
4	13	32	17	34	19	92	31	26	22	20	50	17
5	12	28	16	128	68	70	30	25	21	19	45	17
6	12	24	16	62	75	60	36	26	20	179	38	17
7	12	23	16	44	102	54	41	31	20	63	35	16
8	13	22	16	36	147	48	36	29	21	34	33	16
9	14	21	16	32	99	44	34	25	28	45	31	15
10	13	22	16	29	61	44	32	23	24	50	30	15
11	13	21	16	27	48	42	31	22	21	40	75	22
12	13	27	17	25	42	39	30	40	26	35	61	40
13	13	27	16	24	136	39	29	157	21	30	36	28
14	13	23	16	23	108	44	28	79	22	25	29	20
15	15	24	15	22	75	54	27	94	23	25	26	18
16	13	21	27	21	61	54	26	136	87	25	25	17
17	12	20	25	21	51	47	26	78	70	25	26	18
18	12	19	21	20	45	43	25	58	51	25	31	23
19	13	18	19	18	41	47	25	48	44	25	26	126
20	13	25	19	18	40	43	24	41	35	24	23	243
21	37	23	19	18	37	39	24	36	29	22	21	106
22	20	21	18	18	480	37	25	33	36	22	21	151
23	16	20	22	20	273	35	26	31	48	21	22	71
24	15	18	22	22	109	33	26	28	94	24	20	54
25	17	17	20	24	78	33	23	28	43	35	19	45
26	15	17	19	21	68	36	22	26	33	27	19	40
27	15	17	19	18	61	37	22	24	28	25	19	35
28	14	18	18	18	54	40	93	36	25	25	18	31
29	24	18	18	19	------	44	52	41	23	45	17	28
30	128	18	18	21	------	39	40	31	23	60	17	26
31	93	------	19	20	------	36	------	28	------	45	17	------
TOTAL	654	709	568	858	2,429	1,473	967	1,373	1,009	1,111	985	1,307
MEAN	21.1	23.6	18.3	27.7	86.8	47.5	32.2	44.3	33.6	35.8	31.8	43.6
MAX	128	51	27	128	480	101	93	157	94	179	75	243
MIN	12	17	15	18	17	33	22	22	20	19	17	15
CFSM	.68	.76	.59	.89	2.78	1.52	1.03	1.42	1.08	1.15	1.02	1.40
IN.	.78	.85	.68	1.02	2.90	1.76	1.15	1.64	1.20	1.32	1.17	1.56

CAL YR 1970 TOTAL 11,384.1 MEAN 31.2 MAX 2,270 MIN 6.7 CFSM 1.00 IN 13.57
WTR YR 1971 TOTAL 13,443.0 MEAN 36.8 MAX 480 MIN 12 CFSM 1.18 IN 16.03

PEAK DISCHARGE (BASE, 550 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-22	2030	10.28	1,580	7- 6	1700	9.55	1,370
6-16	2000	6.42	646	9-20	0030	8.52	1,100

NOTE.--No gage-height record July 8 to Aug. 11.

02142000 Lower Little River near All Healing Springs, N. C.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	50	49	34	39	45	67	37	33	36	36	16
2	45	81	45	37	41	51	61	36	32	39	42	15
3	32	285	46	44	53	53	55	93	31	39	29	15
4	29	114	46	44	49	49	53	82	30	35	42	15
5	26	81	49	43	44	48	50	60	29	42	41	31
6	25	66	61	39	44	44	48	51	28	34	28	20
7	23	58	290	37	44	42	50	46	29	32	26	18
8	22	52	128	36	40	45	73	55	27	30	24	17
9	36	49	85	39	39	41	56	54	27	29	22	17
10	45	48	71	58	36	40	53	46	24	28	22	16
11	33	45	63	88	38	39	51	42	26	28	22	15
12	28	43	57	76	44	39	84	40	25	29	22	15
13	26	41	54	177	149	38	69	41	25	28	24	15
14	25	41	51	231	83	38	62	207	24	27	35	14
15	25	40	51	97	66	37	56	100	24	26	24	14
16	717	39	49	71	57	44	54	73	25	28	28	13
17	114	38	47	62	56	47	50	60	36	28	23	14
18	76	37	43	56	55	40	46	55	53	26	24	16
19	61	37	42	53	53	39	45	52	31	25	22	14
20	53	36	50	50	49	37	44	60	164	24	21	13
21	49	35	45	54	48	39	45	57	1,060	22	20	13
22	56	34	42	52	47	182	61	51	134	22	19	13
23	37	33	40	52	46	81	54	53	81	21	19	13
24	169	45	40	49	46	63	49	46	64	21	18	14
25	100	46	39	47	44	58	46	42	56	20	18	14
26	76	44	39	44	51	58	43	39	51	20	18	13
27	64	50	38	44	47	56	41	37	45	20	18	13
28	57	49	37	44	46	55	40	37	43	20	17	14
29	51	57	35	43	45	54	39	37	42	31	16	69
30	48	55	37	42	------	53	38	39	39	27	16	74
31	51	------	36	40	------	71	------	37	------	24	16	------
TOTAL	2,279	1,734	1,805	1,873	1,502	1,626	1,583	1,765	2,742	861	752	573
MEAN	73.5	57.8	58.2	60.4	51.8	52.5	52.8	56.9	78.1	27.8	24.3	19.1
MAX	717	285	290	231	149	182	84	207	1,060	42	42	74
MIN	22	33	35	34	38	37	38	36	24	20	16	13
CFSM	2.36	1.85	1.87	1.94	1.66	1.68	1.69	1.82	2.50	.89	.78	.61
IN.	2.72	2.07	2.15	2.23	1.79	1.94	1.89	2.10	2.74	1.03	.90	.68

CAL YR 1971 TOTAL 17,330 MEAN 47.5 MAX 717 MIN 15 CFSM 1.52 IN 20.66
WTR YR 1972 TOTAL 18,695 MEAN 51.1 MAX 1,060 MIN 13 CFSM 1.64 IN 22.29

PEAK DISCHARGE (BASE, 550 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-16	0530	11.83	2,090	6-21	0830	12.17	2,230
1-13	2230	6.81	716				

02142900 Long Creek near Paw Creek, N. C.

LOCATION.--Lat 35°19'42", long 80°54'35", Mecklenburg County, on left bank at upstream side of bridge on Secondary Road 2042, 600 ft downstream from McIntyre Creek, 1.2 miles upstream from Gutter Branch, and 3.6 miles north of community of Paw Creek.

DRAINAGE AREA.--16.1 sq mi.

PERIOD OF RECORD.--June 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 648.7 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 14.3 cfs (12.08 inches per year).

EXTREMES.--Current year: Maximum discharge, 774 cfs Jan. 13 (gage height, 9.51 ft); minimum daily, 0.97 cfs Sept. 13, 15; minimum gage height, 0.93 ft Sept. 15.
Period of record: Maximum discharge, 1,350 cfs Aug. 23, 1967 (gage height, 10.38 ft); maximum gage height, 10.71 ft Aug. 2, 1971; minimum, 0.65 cfs July 28, 29, 1966; minimum gage height, 0.93 ft Sept. 15, 1972.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	13	15	11	13	14	25	6.8	6.8	4.7	3.6	1.2
2	192	14	13	12	31	17	18	6.8	6.1	4.3	2.8	1.4
3	21	43	14	11	210	15	14	18	6.1	4.3	2.8	1.5
4	13	20	19	51	58	13	14	12	5.8	4.7	2.5	1.5
5	9.1	14	44	41	25	13	13	8.0	5.4	21	2.3	5.0
6	13	12	97	22	22	12	12	6.8	9.6	12	2.3	2.8
7	7.2	11	179	17	20	12	11	6.6	14	6.1	2.3	1.9
8	7.0	9.1	46	14	16	15	14	40	6.5	5.4	2.3	1.7
9	80	9.1	25	15	15	12	11	30	5.4	4.7	1.9	1.7
10	150	9.1	21	299	14	12	9.9	12	5.4	4.3	2.0	1.4
11	35	9.1	20	173	13	11	11	8.5	5.0	6.1	2.0	1.2
12	20	8.6	17	53	17	11	35	7.5	4.7	7.7	2.3	1.2
13	15	8.6	25	352	82	11	21	6.8	4.3	6.5	2.0	.97
14	10	8.2	17	81	25	12	16	234	4.3	4.7	2.8	1.1
15	9.0	8.2	16	31	20	11	13	58	4.0	4.0	2.3	.97
16	280	8.2	15	21	17	14	12	36	3.6	3.6	3.0	1.1
17	70	8.2	17	18	20	20	11	17	4.3	3.6	2.5	4.4
18	15	8.2	15	18	28	13	9.5	13	3.6	3.3	1.7	5.1
19	12	7.7	13	18	41	11	9.1	16	3.6	3.3	1.9	2.5
20	10	9.1	36	16	24	10	9.0	19	114	3.3	1.7	2.1
21	12	7.7	31	20	18	10	11	15	258	3.0	1.5	1.7
22	25	7.2	19	20	17	43	24	34	25	3.0	1.4	1.7
23	127	7.2	15	20	16	17	19	30	13	2.8	1.4	1.7
24	92	102	14	17	18	13	12	15	9.1	3.0	1.4	1.7
25	102	48	14	15	17	13	11	11	7.2	2.8	1.5	1.6
26	31	21	13	14	17	15	8.7	9.1	6.5	2.8	1.5	1.6
27	20	42	13	13	15	17	8.1	8.2	6.1	2.8	1.5	3.3
28	17	24	12	13	14	15	7.6	8.2	6.1	3.0	1.5	6.5
29	14	23	12	13	14	18	7.5	7.7	5.8	3.0	1.2	3.6
30	13	21	12	17	------	17	7.1	7.7	4.7	3.0	1.4	16
31	14	------	13	15	------	36	------	7.7	------	3.3	1.4	------
TOTAL	1,473.3	541.5	832	1,451	857	473	404.5	716.4	564.0	150.1	62.7	80.14
MEAN	47.5	18.1	26.8	46.8	29.6	15.3	13.5	23.1	18.8	4.84	2.02	2.67
MAX	280	102	179	352	210	43	35	234	258	21	3.6	16
MIN	7.0	7.2	12	11	13	10	7.1	6.6	3.6	2.8	1.2	.97
CFSM	2.95	1.12	1.66	2.91	1.84	.95	.84	1.43	1.17	.30	.13	.17
IN.	3.40	1.25	1.92	3.35	1.98	1.09	.93	1.66	1.30	.35	.14	.19

CAL YR 1971 TOTAL 8,819.90 MEAN 24.2 MAX 381 MIN 3.3 CFSM 1.50 IN 20.38
WTR YR 1972 TOTAL 7,605.64 MEAN 20.8 MAX 352 MIN .97 CFSM 1.29 IN 17.57

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-10	1630	8.86	684	5-14	0745	8.68	660
1-13	1115	9.51	774	6-20	2330	8.21	599
2- 3	1500	7.49	511				

02143000 Henry Fork near Henry River, N. C.

LOCATION.--Lat 35°41'06", long 81°24'03", Catawba County, on left bank 450 ft downstream from bridge on Secondary Road 1124, at site of Old Link Ford, 1.2 miles downstream from Burke-Catawba County line, and 2 miles southeast of village of Henry River.

DRAINAGE AREA.--80 sq mi, approximately.

PERIOD OF RECORD.--July 1925 to November 1931, December 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 891.0 ft above mean sea level. July 1925 to November 1931, at site 450 ft upstream at same datum.

AVERAGE DISCHARGE.--36 years (1925-31, 1942-72), 127 cfs (21.53 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,730 cfs June 21 (gage height, 12.70 ft); minimum, 48 cfs Oct. 8, 9 (gage height, 1.09 ft); minimum daily, 49 cfs Oct. 8.
Period of record: Maximum discharge, 15,300 cfs Oct. 2, 1929 (gage height, 18.40 ft, site then in use), from rating curve extended above 2,300 cfs on basis of computation of peak flow over dam at Henry River, at gage height 29.2 ft; minimum, 3 cfs Dec. 20, 1942; minimum daily, 4 cfs Nov. 15, Dec. 20, 1942.
Maximum stage known, 29.2 ft Aug. 13, 1940 at former site, from floodmarks (discharge, 31,300 cfs). The flood of July 16, 1916 reached a stage of about 23 ft at former site (discharge, 20,700 cfs).

REMARKS.--Records good. Occasionally, diurnal fluctuation and some regulation caused by mill above station. An average of about 2.0 cfs was diverted for water supply by town of Morganton and wasted into Catawba River.

REVISIONS (WATER YEARS).--WSP 952: 1928, 1930.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	349	137	100	105	111	178	103	122	123	101	62
2	66	316	117	104	108	134	173	101	116	120	98	61
3	56	341	116	102	130	149	158	148	113	120	94	59
4	53	270	131	117	150	139	148	617	110	115	88	56
5	55	187	122	129	130	131	137	234	108	183	87	69
6	63	155	182	114	125	121	132	165	105	127	85	124
7	54	141	1,810	108	118	117	130	142	111	115	84	75
8	49	125	732	103	112	128	141	191	102	110	84	66
9	60	118	327	105	110	117	122	259	108	106	78	63
10	111	115	235	151	105	114	118	183	116	104	77	62
11	70	109	197	271	105	110	120	150	103	102	82	59
12	58	104	170	263	115	110	147	137	97	114	85	57
13	54	101	156	265	320	110	145	133	94	120	74	56
14	53	98	144	483	240	109	133	1,160	93	112	73	54
15	52	95	143	262	190	106	124	469	90	104	70	52
16	133	93	141	188	150	120	121	287	89	110	75	52
17	92	91	134	159	145	133	118	216	97	145	77	50
18	73	90	126	149	140	115	112	183	144	114	75	55
19	65	88	121	142	135	110	110	173	106	102	81	62
20	62	88	133	135	130	106	110	178	724	96	72	56
21	76	86	128	135	125	107	115	238	3,420	92	68	52
22	927	84	119	132	122	577	143	210	471	95	67	52
23	1,040	82	114	131	119	265	141	194	267	87	65	51
24	1,090	115	112	124	121	181	126	170	204	86	63	52
25	340	121	112	119	119	160	124	153	175	152	64	53
26	214	115	110	120	122	151	115	140	158	178	86	53
27	163	116	108	118	118	152	111	133	146	102	73	51
28	138	123	106	115	114	144	108	130	141	123	108	51
29	122	147	103	114	112	145	105	128	141	147	85	55
30	113	183	103	112	------	144	104	133	134	164	68	97
31	236	------	106	110	------	162	------	132	------	113	63	------
TOTAL	5,790	4,246	6,595	4,780	3,935	4,578	3,869	6,990	8,005	3,681	2,450	1,817
MEAN	187	142	213	154	136	148	129	225	267	119	79.0	60.6
MAX	1,090	349	1,810	483	320	577	178	1,160	3,420	183	108	124
MIN	49	82	103	100	105	106	104	101	89	86	63	50
CFSM	2.34	1.78	2.66	1.93	1.70	1.85	1.61	2.81	3.34	1.49	.99	.76
IN.	2.69	1.97	3.07	2.22	1.83	2.13	1.80	3.25	3.72	1.71	1.14	.84

CAL YR 1971 TOTAL 53,199 MEAN 146 MAX 1,810 MIN 42 CFSM 1.83 IN 24.74
WTR YR 1972 TOTAL 56,736 MEAN 155 MAX 3,420 MIN 49 CFSM 1.94 IN 26.38

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 7	1400	7.43	3,010	6-21	0630	12.70	6,730

02143040 Jacob Fork at Ramsey, N. C.

LOCATION.--Lat 35°35'26", long 81°34'02", Burke County, on left bank 16 ft downstream from bridge on Secondary Road 1924, 0.6 mile downstream from Queens Creek, and 0.6 mile north of Ramsey.

DRAINAGE AREA.--25.4 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1960-61. October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,103.00 ft above mean sea level.

AVERAGE DISCHARGE.--11 years, 47.8 cfs (25.57 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,520 cfs June 21 (gage height, 11.90 ft); minimum, 13 cfs Sept. 16 (gage height, 1.86 ft).
Period of record: Maximum discharge, 4,520 cfs Aug. 9, 1970 (gage height, 16.92 ft); minimum, 7.3 cfs July 28, 29, 1966 (gage height, 1.67 ft).
Flood of August 1940 reached a stage of about 39 ft, from information by local resident. Flood of July 1916 reached a stage of about 19 ft, from information by North Carolina State Highway Commission.

REMARKS.--Records good except those for periods of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	135	52	51	48	43	58	34	43	40	29	17
2	25	225	43	48	47	51	66	34	40	39	30	16
3	22	195	47	53	54	53	58	48	37	41	27	16
4	21	121	44	48	50	50	53	134	36	39	26	16
5	22	91	44	46	48	48	49	52	35	68	25	32
6	26	67	53	45	48	45	45	46	36	38	25	23
7	21	50	771	42	45	43	45	41	34	34	25	19
8	20	52	206	43	41	48	66	65	34	33	24	17
9	27	64	125	42	41	45	48	92	34	31	23	17
10	35	47	52	76	49	42	48	50	34	30	23	16
11	26	44	71	145	39	41	48	47	33	29	24	16
12	23	42	62	109	45	48	51	42	32	33	24	15
13	22	41	58	137	116	48	46	42	31	31	22	15
14	21	39	52	205	55	48	43	490	31	28	21	15
15	21	38	54	44	65	49	48	192	30	28	20	14
16	57	47	53	74	55	44	48	111	29	28	26	14
17	36	36	52	65	55	48	48	74	29	28	22	17
18	30	36	48	54	54	44	47	55	31	26	23	21
19	27	36	48	55	52	48	48	81	31	25	22	17
20	27	35	54	52	48	49	38	54	308	24	20	16
21	51	35	51	54	48	49	39	115	478	31	19	15
22	630	34	47	52	48	200	49	94	121	28	19	15
23	421	33	44	52	45	80	48	77	76	27	19	15
24	321	44	44	50	45	65	42	58	60	24	19	15
25	124	42	44	47	45	58	42	62	52	30	19	15
26	82	42	42	45	45	54	39	53	44	28	19	15
27	63	40	41	44	44	55	37	45	45	32	19	15
28	52	39	40	44	43	53	36	44	44	55	31	15
29	45	52	39	43	43	50	35	43	49	60	19	46
30	42	73	41	42	------	55	35	46	44	46	18	46
31	177	------	41	41	------	62	------	49	------	35	17	------
TOTAL	2,500	1,845	2,441	1,479	1,454	1,661	1,317	2,476	2,470	1,069	699	561
MEAN	83.9	63.2	80.6	63.5	50.1	53.6	43.9	79.9	82.3	34.5	22.5	18.7
MAX	630	225	771	205	116	200	66	490	478	68	31	46
MIN	20	33	39	39	39	39	35	34	29	24	17	14
CFSM	3.30	2.49	3.15	2.50	2.09	2.11	1.73	3.15	3.24	1.36	.89	.74
IN.	3.81	2.78	3.63	2.69	2.15	2.43	1.93	3.63	3.62	1.57	1.02	.82

CAL YR 1971 TOTAL 21,510 MEAN 58.9 MAX 771 MIN 17 CFSM 2.32 IN 31.50
WTR YR 1972 TOTAL 20,668 MEAN 56.5 MAX 478 MIN 14 CFSM 2.22 IN 30.27

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-22	1000	7.54	1,260	5-14	0630	7.69	1,290
10-23	2030	6.09	892	6-21	0300	11.90	2,520
12- 7	1130	9.55	1,820				

NOTE.--No gage-height record Feb. 22 to Mar. 24.

02143500 Indian Creek near Laboratory, N. C.

LOCATION.--Lat 35°25'20", long 81°15'52", Lincoln County, on left bank 250 ft upstream from remains of Rudisill Mill dam, 0.5 mile upstream from bridge on Secondary Road 1252, 1.5 miles upstream from mouth, 1.5 miles south of Laboratory, and 3.5 miles south of Lincolnton.

DRAINAGE AREA.--68.4 sq mi.

PERIOD OF RECORD.--August 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 736 ft (by barometer).

AVERAGE DISCHARGE.--21 years, 89.4 cfs (17.75 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,730 cfs Oct. 16 (gage height, 8.60 ft); minimum, 24 cfs Sept. 16, 17 (gage height, 0.85 ft).
Period of record: Maximum discharge, 8,450 cfs Aug. 10, 1970 (gage height, 10.61 ft); minimum, 4.6 cfs Oct. 8, 1954.
Peak discharge of flood in October 1929 was 9,920 cfs; flood in July 1916, 7,840 cfs; flood in August 1940, 6,000 cfs. Discharge based on computation of peak flow over dam 1 mile downstream, using floodmarks and information by local resident.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD N. C. 1971: 1970(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	93	80	76	76	87	132	76	91	71	80	37
2	78	145	74	79	87	159	117	75	84	67	69	37
3	53	288	82	77	171	144	106	257	80	73	65	36
4	47	154	91	99	147	111	103	135	77	69	60	34
5	58	112	107	110	106	101	96	102	75	108	58	65
6	76	96	211	86	99	92	93	90	72	83	56	48
7	54	88	1,050	80	96	89	92	82	72	76	56	35
8	45	80	907	76	88	114	102	262	68	67	54	33
9	49	79	229	80	85	96	88	246	68	65	53	31
10	62	77	175	254	82	90	85	131	70	60	54	30
11	53	75	149	304	81	85	86	104	68	65	56	29
12	47	73	126	211	92	84	115	94	66	73	60	29
13	45	69	112	294	235	84	105	88	64	67	53	28
14	45	67	102	247	140	84	94	995	62	65	51	27
15	44	66	100	162	114	79	87	732	61	60	49	26
16	3,430	65	97	128	101	90	84	420	59	58	45	26
17	633	63	94	112	106	120	81	194	58	58	47	26
18	160	63	90	107	109	92	76	152	60	56	47	40
19	114	63	83	103	126	85	76	137	60	53	51	37
20	91	64	110	98	103	81	76	158	176	51	45	31
21	87	59	104	103	98	116	82	563	1,230	49	42	30
22	482	56	89	103	95	506	166	299	461	49	42	30
23	888	57	82	102	91	175	140	239	151	47	40	28
24	772	139	84	94	94	132	111	169	120	45	42	29
25	271	129	81	88	92	119	144	136	98	107	45	28
26	170	93	79	82	91	113	101	116	89	60	44	29
27	126	106	78	81	86	113	92	104	82	64	42	34
28	105	93	78	82	85	104	85	100	81	63	42	45
29	93	98	74	81	85	121	82	97	81	167	47	34
30	85	93	79	85	------	123	79	97	77	357	40	66
31	104	------	85	80	------	134	------	102	------	96	37	------
TOTAL	8,421	2,803	4,982	3,764	3,061	3,723	2,976	6,552	3,961	2,449	1,572	1,038
MEAN	272	93.4	161	121	106	120	99.2	211	132	79.0	50.7	34.6
MAX	3,430	288	1,050	304	235	506	166	995	1,230	357	80	66
MIN	44	56	74	76	76	79	76	75	58	45	37	26
CFSM	3.98	1.37	2.35	1.77	1.55	1.75	1.45	3.08	1.93	1.16	.74	.51
IN.	4.58	1.52	2.71	2.05	1.66	2.02	1.62	3.56	2.15	1.33	.85	.56

CAL YR 1971 TOTAL 41,958 MEAN 115 MAX 3,430 MIN 25 CFSM 1.68 IN 22.82
WTR YR 1972 TOTAL 45,302 MEAN 124 MAX 3,430 MIN 26 CFSM 1.81 IN 24.64

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-16	1330	8.60	5,730	6-21	2200	4.81	1,570
12- 8	0200	4.97	1,680				

02144000 Long Creek near Bessemer City, N. C.

LOCATION.--Lat 35°18'23", long 81°14'03", Gaston County, on right bank 700 ft upstream from bridge on Secondary Road 1456, 2 miles northeast of Bessemer City limits, and 8.2 miles upstream from mouth.

DRAINAGE AREA.--31.4 sq mi.

PERIOD OF RECORD.--October 1952 to current year. Monthly discharge only for some periods, published in WSP 1723.

GAGE.--Water-stage recorder. Datum of gage is 706.1 ft above mean sea level.

AVERAGE DISCHARGE.--20 years, 34.1 cfs (14.75 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,500 cfs Oct. 16 (gage height, 9.10 ft), from rating curve extended as explained below; minimum, 5.7 cfs Sept. 16 (gage height, 1.10 ft); minimum daily, 6.1 cfs Sept. 15, 16.
Period of record: Maximum discharge, 6,500 cfs Oct. 16, 1971 (gage height, 9.10 ft), from rating curve extended above 2,100 cfs on basis of contracted-opening measurement of peak flow; minimum, 0.4 cfs Oct. 7 1954; minimum daily, 0.8 cfs Oct. 7, 1954.
Flood of July 1916 reached a stage of 26 ft at site on left bank 1,500 ft upstream, from information by local resident.

REMARKS.--Records good. Bessemer City diverts water supply from above gaging station and returns waste waters to South Fork Catawba River below mouth of Long Creek, causing some diurnal fluctuation; an average of 2.2 cfs was diverted during the year.

REVISIONS (WATER YEARS).--WSP 1723: 1959-60(M). WSP 1904: 1959-60.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	43	39	32	36	38	51	3[illegible]	32	24	15	7.5
2	52	48	36	34	41	52	44	38	3[illegible]	23	14	7.3
3	30	127	39	32	128	5[illegible]	41	49	29	25	15	7.0
4	25	6[illegible]	44	64	72	42	47	36	27	27	14	7.0
5	29	46	59	57	50	40	42	29	27	35	15	13
6	71	41	123	43	47	37	39	27	26	29	13	11
7	31	39	395	39	46	37	37	26	28	24	13	9.3
8	25	35	1[illegible]8	37	41	48	48	111	25	22	13	9.5
9	24	35	65	39	39	4[illegible]	37	96	24	21	14	8.2
10	30	34	55	265	38	38	36	48	29	21	19	7.7
11	24	33	55	2[illegible]8	38	36	36	35	25	22	14	7.3
12	22	32	48	93	47	36	54	34	24	28	14	7.2
13	21	32	46	64[illegible]	113	36	44	32	23	24	13	6.8
14	20	30	42	211	55	36	39	680	22	20	12	6.4
15	21	30	41	76	47	34	38	110	21	19	12	6.1
16	2,940	30	40	56	43	39	36	65	21	18	11	6.1
17	102	30	40	52	47	46	34	49	20	18	11	28
18	56	28	38	50	49	37	33	42	21	17	11	15
19	46	29	36	48	57	35	32	50	21	17	12	12
20	39	30	59	45	47	33	31	111	131	17	11	11
21	44	29	53	48	46	38	32	111	815	15	10	10
22	153	26	42	47	45	113	53	222	84	14	10	8.8
23	252	26	39	47	42	51	44	76	47	14	9.4	8.4
24	136	79	38	44	44	43	36	56	39	18	9.7	8.7
25	76	58	39	42	41	41	33	46	34	48	8.9	8.7
26	56	42	38	39	42	41	32	40	31	23	8.8	8.7
27	47	46	37	39	39	42	31	38	28	20	8.8	8.8
28	42	41	36	39	39	40	30	37	28	19	8.8	12
29	39	53	35	38	38	49	29	36	29	17	8.5	11
30	38	46	35	40	------	46	29	37	26	19	8.7	14
31	51	------	36	37	------	56	------	36	------	17	7.7	------
TOTAL	4,567	1,258	1,836	2,591	1,457	1,360	1,148	2,428	1,766	675	365.3	292.5
MEAN	147	41.9	59.2	83.6	50.2	43.9	38.3	78.3	58.9	21.8	11.8	9.75
MAX	2,940	127	395	648	128	113	54	680	815	48	19	28
MIN	20	26	35	32	36	33	29	26	20	14	7.7	6.1
CFSM	4.68	1.33	1.89	2.66	1.60	1.40	1.22	2.49	1.88	.69	.38	.31
IN.	5.41	1.49	2.18	3.07	1.73	1.61	1.36	2.88	2.09	.80	.43	.35

CAL YR 1971 TOTAL 18,943.7 MEAN 51.9 MAX 2,940 MIN 9.2 CFSM 1.65 IN 22.44
WTR YR 1972 TOTAL 19,743.8 MEAN 53.9 MAX 2,940 MIN 6.1 CFSM 1.72 IN 23.39

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-16	0900	9.10	6,500	5-14	0800	5.80	1,260
1-13	2100	5.39	1,040	6-21	1000	5.75	1,230

02146300 Irwin Creek near Charlotte, N. C.

LOCATION.--Lat 35°11'51", long 80°54'10", Mecklenburg County, on left bank at sewage-disposal plant of city of Charlotte, 2,200 ft upstream from Southern Railway bridge, 0.7 mile upstream from Taggart Creek, 4.2 miles southwest of city hall, Charlotte.

DRAINAGE AREA.--30.5 sq mi.

PERIOD OF RECORD.--May 1962 to current year. Prior to October 1963, published as Sugar (Irwin) Creek at Charlotte.

GAGE.--Water-stage recorder. Datum of gage is 591.53 ft above mean sea level (city of Charlotte bench mark).

AVERAGE DISCHARGE.--10 years, 38.0 cfs (16.94 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,900 cfs Oct. 16 (gage height, 12.29 ft); minimum, 6.1 cfs Sept. 13, 14, 15, 16, 17 (gage height, 0.71 ft); minimum daily, 8.1 cfs Sept. 14, 15.
Period of record: Maximum discharge, 3,450 cfs June 21, 1971 (gage height, 13.33 ft); minimum, 3.9 cfs Aug 7, 8, 1966.
Maximum stage known since at least 1927, about 17.3 ft Apr. 6, 1936, at site 400 ft downstream from information by plant employee. Peak may have been affected by failure of Lakewood Dam 5 miles upstream. Flood of Jan. 6, 1962 reached a stage of 14.32 ft, from floodmarks (discharge, 4,120 cfs). Flood of Apr. 11, 1962 reached a stage of 15.18 ft, from floodmarks (discharge, 4,740 cfs, on basis of slope-area measurement of peak flow).

REMARKS.--Records good. Fluctuation at low flow caused by wash water, from city of Charlotte water filtration plants and industry, diverted into the basin from the Catawba River (city water supply). Creek channel improved by dredging in 1917 and maintained by Mecklenburg County Drainage Commission to present time.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	45	29	22	34	25	42	18	18	16	21	9.5
2	322	42	26	22	97	29	30	18	18	15	19	9.0
3	38	187	27	22	400	26	26	58	16	32	19	8.6
4	27	45	79	115	91	23	76	22	14	67	17	60
5	62	31	143	60	49	23	38	18	17	227	13	25
6	121	27	131	26	41	23	28	16	15	40	14	14
7	27	24	191	23	34	21	26	15	27	25	15	13
8	19	24	70	19	33	35	100	118	19	21	19	12
9	118	22	46	48	30	23	32	62	16	18	27	11
10	189	21	40	600	29	22	26	29	14	18	29	10
11	40	22	35	221	29	20	40	20	13	192	13	10
12	25	20	38	81	66	21	100	19	14	75	12	9.7
13	22	19	74	391	149	22	40	18	15	35	11	8.4
14	18	18	33	110	46	24	28	425	14	28	14	8.1
15	18	18	31	57	36	22	26	123	14	32	12	8.1
16	630	19	32	41	33	61	23	49	12	21	18	8.4
17	60	19	51	37	60	63	21	32	13	18	12	91
18	39	17	31	35	116	26	21	29	13	17	13	25
19	30	26	24	35	99	22	22	61	26	16	11	16
20	26	24	105	32	43	23	21	83	393	14	9.8	11
21	42	17	56	47	36	30	24	50	355	30	11	11
22	112	16	45	38	33	168	91	109	50	17	11	10
23	158	16	35	33	37	38	32	49	31	21	11	9.9
24	262	300	28	30	34	27	22	31	24	16	10	9.7
25	150	70	26	28	30	39	20	27	22	22	11	9.1
26	59	36	25	26	38	32	19	24	24	382	11	10
27	40	94	25	25	27	36	20	20	21	68	9.4	48
28	34	38	24	26	27	29	20	19	23	28	10	116
29	30	52	23	27	26	53	18	19	22	38	10	48
30	27	35	23	42	------	30	16	20	18	26	10	253
31	55	------	25	27	------	98	------	19	------	57	10	------
TOTAL	3,012	1,344	1,571	2,346	1,808	1,134	1,048	1,620	1,291	1,632	433.2	892.5
MEAN	97.2	44.8	50.7	75.7	62.3	36.6	34.9	52.3	43.0	52.6	14.0	29.8
MAX	630	300	191	600	400	168	100	425	393	382	29	253
MIN	18	16	23	19	26	20	16	15	12	14	9.4	8.1
CFSM	3.19	1.47	1.66	2.48	2.04	1.20	1.14	1.71	1.41	1.72	.46	.98
IN.	3.67	1.64	1.92	2.86	2.21	1.38	1.28	1.98	1.57	1.99	.53	1.09

CAL YR 1971 TOTAL 21,268.0 MEAN 58.3 MAX 1,000 MIN 13 CFSM 1.91 IN 25.94
WTR YR 1972 TOTAL 18,131.7 MEAN 49.5 MAX 630 MIN 8.1 CFSM 1.62 IN 22.11

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-16	0500	12.29	2,900	5-14	0615	7.83	1,270
1-10	1315	9.61	1,820	6-20	1945	8.58	1,490
2- 3	1330	7.73	1,240	7-26	2030	11.91	2,710

02146450 Briar Creek at Sharon Road, Charlotte, N. C.

LOCATION.--Lat 35°10'47", long 80°49'46", Mecklenburg County, on right bank at upstream side of bridge on Sharon Road (Secondary Road 3600), 2.4 miles upstream from mouth, and 3.0 miles south of city hall, Charlotte.

DRAINAGE AREA.--18.5 sq mi.

PERIOD OF RECORD.--April 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 605.06 ft (city of Charlotte bench mark).

AVERAGE DISCHARGE.--10 years, 19.1 cfs (14.05 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,510 cfs Oct. 16 (gage height, 9.87 ft); minimum, 1.4 cfs Nov. 12 (gage height, 1.31 ft).
Period of record: Maximum discharge, 2,260 cfs Apr. 11, 1962 (gage height, 11.9 ft, from outside floodmarks); minimum, 0.70 cfs Oct. 4, 1970; minimum gage height, 1.27 ft Oct. 4, 8, 9, 10, 1970.
Flood of Jan. 6, 1962 reached a stage of 10.1 ft, from floodmarks (discharge 1,580 cfs).

REMARKS.--Records good. Creek channel improved by dredging in 1914 and maintained by the Mecklenburg County Drainage Commission to present time. The drainage basin is urban and has an impervious area of about 10 percent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	13	11	9.2	23	13	21	6.8	6.3	5.	11	2.9
2	186	13	11	10	85	17	16	6.7	6.1	4.6	5.7	3.1
3	16	75	13	9.2	27	14	13	46	6.2	15	5.3	2.7
4	11	16	47	45	39	12	4	9.7	6.	32	5.0	2.8
5	14	12	89	26	22	12	17	7.3	5.7	129	4.6	12
6	32	11	74	13	20	11	13	5.8	31	16	4.5	3.9
7	9.7	10	74	11	20	11	13	6.6	21	8.9	4.6	2.9
8	7.6	9.3	27	10	15	18	47	62	6.4	6.2	7.7	3.6
9	126	9.5	19	23	14	11	13	22	5.8	5.6	4.7	3.6
10	253	9.8	16	416	14	11	12	10	5.4	5.4	10	2.4
11	28	9.6	16	107	14	11	14	7.6	5.0	17	4.5	2.4
12	16	8.7	29	36	43	11	39	7.4	5.3	27	4.6	2.4
13	12	9.5	47	101	85	11	16	7.1	5.1	7.4	12	2.3
14	11	8.6	16	38	21	13	12	199	5.3	5.8	10	2.1
15	10	8.8	15	21	17	12	12	79	5.7	5.2	4.6	2.2
16	544	8.9	20	16	15	35	11	21	5.1	4.7	12	2.1
17	30	8.5	30	15	40	32	10	11	12	74	4.5	113
18	18	8.4	17	15	65	15	9.6	9.9	6.7	13	6.2	12
19	13	15	12	15	62	12	10	35	13	6.5	4.3	6.8
20	12	16	56	14	23	12	10	14	236	5.4	3.9	3.5
21	23	9.7	26	24	19	20	10	10	217	4.6	3.7	3.0
22	64	11	15	20	17	110	34	45	17	4.7	3.7	2.4
23	85	10	12	16	19	20	12	16	9.0	11	3.7	2.4
24	62	178	12	15	19	14	10	9.8	7.0	5.9	3.6	2.5
25	56	29	12	14	16	23	10	9.2	6.3	8.3	3.5	2.7
26	23	15	12	12	23	18	8.7	7.8	6.0	109	3.5	2.7
27	16	57	11	12	15	20	8.0	7.0	5.6	20	5.4	28
28	14	17	11	13	14	15	7.5	7.0	11	6.5	5.1	27
29	13	25	11	14	14	37	7.2	6.9	6.5	9.6	3.3	30
30	12	15	12	28	------	16	7.0	8.0	5.7	9.1	3.1	114
31	23	------	12	16	------	54	------	7.1	------	46	3.0	------
TOTAL	1,890.3	647.3	785	1,134.4	1,063	641	463.0	708.7	690.2	628.4	171.3	401.4
MEAN	61.0	21.6	25.3	36.6	36.7	20.7	15.4	22.9	23.0	20.3	5.53	13.4
MAX	544	178	89	416	270	110	47	199	236	129	12	114
MIN	7.6	8.4	11	9.2	14	11	7.0	6.6	5.0	4.6	3.0	2.1
CFSM	3.30	1.17	1.37	1.98	1.98	1.12	.83	1.24	1.24	1.10	.30	.72
IN.	3.80	1.30	1.58	2.28	2.14	1.29	.93	1.43	1.39	1.26	.34	.81

CAL YR 1971 TOTAL 12,410.9 MEAN 34.0 MAX 868 MIN 4.5 CFSM 1.84 IN 24.96
WTR YR 1972 TOTAL 9,224.0 MEAN 25.2 MAX 544 MIN 2.1 CFSM 1.36 IN 18.55

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-16	0900	9.87	1,510	2-3	1300	7.86	946
1-10	1500	8.76	1,180				

02146500 Little Sugar Creek near Charlotte, N. C.

LOCATION.--Lat 35°09'13", long 80°51'18", Mecklenburg County, on right bank 10 ft upstream from bridge on Tyvola Road at sewage-disposal plant of city of Charlotte, 1,500 ft downstream from Briar Creek, and 4.8 miles south of city hall, Charlotte.

DRAINAGE AREA.--41.0 sq mi.

PERIOD OF RECORD.--July 1924 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 568.58 ft above mean sea level (city of Charlotte bench mark). Prior to Apr. 26, 1927, nonrecording gage and Apr. 26, 1927 to Sept. 30, 1958, water-stage recorder at site 1,000 ft upstream at datum 2.7 ft higher.

AVERAGE DISCHARGE.--48 years, 45.9 cfs (15.20 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,480 cfs Oct. 16 (gage height, 13.25 ft); minimum daily, 4.6 cfs Sept. 14.
Period of record: Maximum discharge, 8,370 cfs Apr. 6, 1936 (gage height, 16.2 ft, from floodmarks at site and datum then in use), from rating curve extended above 2,600 cfs on basis of slope-area and contracted-opening measurements of peak flow at gage heights, 10.42, 11.47, 12.00, and 13.10 ft; minimum, 1.2 cfs Sept. 27, 1954.

REMARKS.--Records good. At times small amounts of cooling and wash water, diverted into the basin from Catawba River through city of Charlotte storm sewers. Since 1911 the creek channel has been dredged and improved. The drainage area is urban, within the city of Charlotte, and has an impervious area of 14.6 percent.

REVISIONS (WATER YEARS).--WSP 1052: 1939-44. WSP 1503: 1924-27(M), 1928-30, 1931(M), 1932-34. WSP 1723: Drainage area. WSP 1904: 1959-61.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	323	38	24	21	45	25	43	14	14	11	26	7.3
2	437	30	22	22	189	34	31	14	14	10	14	7.3
3	36	201	26	21	631	27	27	108	13	25	12	6.8
4	23	35	119	113	83	23	95	22	13	76	11	13
5	44	26	202	63	43	22	36	16	12	305	10	40
6	104	24	146	28	40	21	27	14	32	37	9.7	11
7	22	22	168	25	40	21	26	14	55	19	10	7.7
8	17	20	57	23	30	39	114	156	14	15	19	6.6
9	267	20	39	57	28	22	26	57	13	13	13	6.8
10	463	20	33	982	27	21	24	25	12	12	23	6.1
11	55	20	33	247	27	20	29	16	11	65	9.5	5.4
12	30	19	55	75	98	20	90	15	11	71	9.4	5.2
13	24	20	102	280	198	20	32	14	11	19	17	5.0
14	22	18	33	84	40	23	26	505	11	14	26	4.6
15	20	18	30	44	33	20	23	177	11	12	9.3	4.8
16	1,230	18	47	33	30	89	22	46	10	11	26	4.7
17	60	17	66	31	88	78	21	25	19	94	8.9	500
18	35	17	36	31	159	27	20	21	16	26	15	30
19	28	28	27	31	136	22	19	78	27	13	9.2	17
20	25	33	134	29	45	21	19	41	602	11	7.8	8.8
21	51	16	55	54	35	49	20	23	493	16	7.5	7.5
22	150	15	32	41	33	263	92	132	35	13	7.4	6.0
23	199	15	28	33	38	35	30	44	20	15	7.3	6.0
24	183	425	27	29	37	27	24	23	17	13	7.3	6.2
25	126	64	26	27	31	49	26	21	15	18	7.2	6.7
26	48	30	25	24	50	38	19	19	14	519	7.1	6.7
27	35	131	24	24	29	42	17	16	13	64	8.8	135
28	31	35	23	26	27	29	16	16	24	16	11	130
29	28	61	23	27	26	80	15	16	16	22	7.6	150
30	27	33	25	61	------	33	14	16	13	19	6.9	550
31	63	------	26	32	------	132	------	16	------	110	7.3	------
TOTAL	4,206	1,469	1,713	2,618	2,316	1,372	1,023	1,720	1,581	1,684	371.2	1,702.2
MEAN	136	49.0	55.3	84.5	79.9	44.3	34.1	55.5	52.7	54.3	12.0	56.7
MAX	1,230	425	202	982	631	263	114	505	602	519	26	550
MIN	17	15	22	21	26	20	14	14	10	10	6.9	4.6
CFSM	3.32	1.20	1.35	2.06	1.95	1.08	.83	1.35	1.29	1.32	.29	1.38
IN.	3.82	1.33	1.55	2.38	2.10	1.24	.93	1.56	1.43	1.53	.34	1.54

CAL YR 1971 TOTAL 27,888.9 MEAN 76.4 MAX 1,230 MIN 9.1 CFSM 1.86 IN 25.30
WTR YR 1972 TOTAL 21,775.4 MEAN 59.5 MAX 1,230 MIN 4.6 CFSM 1.45 IN 19.76

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-16	0445	13.25	4,480	6-20	1915	9.29	2,310
1-10	1500	10.49	2,960	7-26	2030	11.72	3,610
2- 3	1315	9.47	2,420				

02146600 McAlpine Creek at Sardis Road near Charlotte, N. C.

LOCATION.--Lat 35°08'13", long 80°46'06", Mecklenburg County, near left bank on downstream end of bridge pier at Sardis Road (Secondary Road 3356), 1.7 miles downstream from Irvins Creek, and 7 miles southeast of city hall, Charlotte.

DRAINAGE AREA.--38.3 sq mi.

PERIOD OF RECORD.--April 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 553.39 ft above mean sea level (city of Charlotte bench mark).

AVERAGE DISCHARGE.--10 years, 34.2 cfs (12.12 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,120 cfs Oct. 16 (gage height, 13.12 ft); minimum, 2.0 cfs Sept. 14, 15, 16, 17 (gage height, 0.95 ft).
Period of record: Maximum discharge, 3,990 cfs Apr. 11, 1962 (gage height, 13.82 ft); minimum, 0.60 cfs Sept. 26, Oct. 6, 1968.
Flood of Jan. 6, 1962 reached a stage of about 14.0 ft, from floodmarks (discharge 4,150 cfs).

REMARKS.--Records good. Diurnal fluctuation at low flow probably caused by two small sewage treatment plants diverting water into the basin from the Catawba River (city water supply). Creek channel improved by dredging in 1917 and maintained by the Mecklenburg County Drainage Commission to present time. This drainage basin is adjacent to the city of Charlotte. In 1962 it had an impervious area of 2.1 percent. The basin is undergoing continuing urbanization.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	45	26	21	36	26	61	13	12	8.8	20	3.8
2	423	130	23	21	290	26	37	13	11	8.1	11	3.3
3	46	355	27	21	631	25	28	57	10	8.3	9.5	3.3
4	25	208	49	43	149	23	39	26	10	12	8.3	14
5	19	70	158	55	67	23	37	17	9.6	54	7.6	10
6	68	40	231	28	52	20	27	14	15	29	7.0	5.7
7	21	27	150	24	48	21	25	13	32	14	7.3	4.4
8	14	22	74	21	34	23	81	35	12	11	8.3	4.0
9	90	20	46	24	30	21	30	36	9.9	9.1	8.3	4.0
10	855	20	37	889	27	20	25	18	9.2	8.3	11	3.8
11	98	19	34	331	27	19	25	15	8.4	9.1	7.3	3.3
12	40	19	32	125	45	19	45	13	8.0	20	7.3	3.1
13	26	19	88	206	195	19	34	13	7.8	13	8.3	2.8
14	21	19	39	111	56	19	27	211	7.6	9.3	6.4	2.7
15	18	18	33	58	40	18	27	157	7.3	8.1	6.0	2.7
16	1,290	17	38	39	33	30	24	50	7.1	7.4	9.0	2.8
17	111	16	61	32	95	52	21	26	6.9	7.0	6.4	25
18	51	16	46	31	143	28	20	21	7.3	7.7	6.4	11
19	35	16	31	31	189	22	19	61	8.5	9.8	5.7	5.0
20	30	20	73	29	71	20	18	42	219	7.8	5.1	4.2
21	33	16	73	40	47	22	17	24	729	6.7	4.9	3.7
22	82	14	38	34	39	161	29	72	62	6.3	4.7	3.8
23	252	13	29	32	35	42	27	57	26	9.9	4.7	3.5
24	180	259	28	28	39	27	20	27	19	9.1	4.7	3.3
25	234	105	26	26	34	27	17	21	15	5.8	4.9	3.4
26	100	42	25	23	48	33	16	17	13	225	4.7	3.2
27	60	102	24	23	35	37	16	15	11	43	4.7	5.5
28	40	51	23	23	29	29	15	14	11	12	5.4	9.7
29	35	46	22	23	27	53	14	14	11	17	4.9	34
30	33	35	22	42	------	39	14	15	9.9	17	4.4	78
31	38	------	24	37	------	112	------	15	------	51	4.2	------
TOTAL	4,512	1,799	1,630	2,471	2,591	1,056	835	1,142	1,325.5	664.6	218.4	267.0
MEAN	146	60.0	52.6	79.7	89.3	34.1	27.8	36.8	44.2	21.4	7.05	8.90
MAX	1,290	355	231	889	631	161	81	211	729	225	20	78
MIN	14	13	22	21	27	18	14	13	6.9	5.8	4.2	2.7
CFSM	3.81	1.57	1.37	2.08	2.33	.89	.73	.96	1.15	.56	.18	.23
IN.	4.38	1.75	1.58	2.40	2.52	1.03	.81	1.11	1.29	.65	.21	.26

CAL YR 1971 TOTAL 24,089.3 MEAN 66.0 MAX 1,400 MIN 6.0 CFSM 1.72 IN 23.40
WTR YR 1972 TOTAL 18,511.5 MEAN 50.6 MAX 1,290 MIN 2.7 CFSM 1.32 IN 17.98

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 2	0215	9.03	1,310	2- 3	1445	10.74	1,900
10-10	0400	11.17	2,080	6-21	1015	10.64	1,860
10-16	0830	13.12	3,120	7-26	2030	10.56	1,820
1-10	1700	11.66	2,330				

02146700 McMullen Creek at Sharon View Road near Charlotte, N. C.

LOCATION.--Lat 35°08'26", long 80°49'12", Mecklenburg County, on left downstream side of culvert wingwall at Sharon View Road (Secondary Road 3673), 3.3 miles south of Queens College, Charlotte, and 6.9 miles upstream from mouth. Prior to Dec. 30, 1971, at site 154 ft downstream.

DRAINAGE AREA.--6.98 sq mi.

PERIOD OF RECORD.--April 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 592.91 ft above mean sea level (city of Charlotte bench mark). Prior to Oct. 13, 1970, at site 73 ft upstream at same datum. Oct. 13, 1970 to Dec. 30, 1971 at site 154 ft downstream at datum 2.00 ft lower.

AVERAGE DISCHARGE.--10 years, 6.18 cfs (12.02 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,130 cfs July 26 (gage height, 7.88 ft); minimum, 0.13 cfs Sept. 27 (gage height, 0.71 ft).
Period of record: Maximum discharge, 1,240 cfs Apr. 11, 1962 (gage height, 8.15 ft in gage well, 8.51 ft outside gage,) site and datum then in use; no flow Aug. 31, Sept. 1, 2, 1962, Sept. 19-23, 1963, Sept. 3, 4, Oct. 5, 1968, Oct. 8, 27, 28, 1970.
Flood of Jan. 6, 1962 reached a stage of 7.5 ft, former site and datum, from floodmarks (discharge, 1,040 cfs).

REMARKS.--Records good. Occasional temporary and slight fluctuation during low flow from city of Charlotte sewage pump station and a small sewage treatment plant diverting water into the basin from Catawba River (city water supply). Creek channel improved by dredging in 1928. This drainage basin drains the eastern part of the city of Charlotte. In 1962 it had an impervious area of 6.3 percent and has increased somewhat since then.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	3.1	2.7	1.9	11	2.8	7.3	1.3	1.8	.66	7.2	.30
2	82	3.6	2.3	1.9	47	3.7	4.5	1.5	1.6	.59	1.9	.27
3	4.2	53	2.8	1.8	127	3.1	3.1	15	1.5	.96	2.3	.36
4	1.9	5.3	18	15	14	2.4	10	2.5	1.3	2.4	1.4	6.8
5	1.7	2.9	52	12	6.3	2.3	4.3	1.8	1.3	22	1.1	4.5
6	16	2.2	38	3.2	5.4	2.1	2.9	1.4	.99	3.1	.93	1.2
7	1.8	2.0	25	2.4	5.8	2.0	2.7	1.3	2.0	1.2	.91	.70
8	1.3	1.7	8.6	2.1	3.7	3.6	22	19	1.1	.88	2.1	.32
9	55	1.7	5.3	6.8	3.0	2.1	3.2	7.9	.93	.72	1.5	.21
10	128	1.7	4.4	196	2.7	2.0	2.7	1.8	1.4	.59	2.8	.23
11	8.1	1.7	4.0	59	2.5	1.8	3.2	1.6	.93	1.4	.96	.23
12	3.4	1.7	3.5	13	20	1.6	9.5	1.4	.93	5.8	.83	.24
13	2.4	1.6	18	40	35	1.8	3.7	1.4	.77	1.4	3.9	.43
14	1.9	1.6	5.2	11	5.4	1.7	2.9	67	.77	.95	1.7	.23
15	1.7	1.5	4.7	5.2	4.0	1.6	2.9	67	.93	1.2	.69	.19
16	226	1.5	12	3.4	3.5	8.4	2.7	5.9	.63	.58	2.9	.47
17	14	1.7	14	3.1	22	9.9	2.4	2.8	.63	.55	1.1	8.5
18	7.1	1.6	5.9	3.2	36	2.4	2.3	2.2	.93	.80	.95	2.3
19	5.8	2.1	3.7	3.1	33	2.0	2.3	19	2.9	.89	.80	.57
20	21	3.2	22	2.8	7.6	1.8	2.1	5.4	73	.63	.50	.37
21	5.9	1.5	9.4	10	4.9	7.9	2.0	2.6	74	.61	.41	.21
22	25	1.1	4.7	6.4	4.2	50	9.1	23	3.3	.80	.44	.20
23	23	1.2	3.2	3.9	4.9	4.8	2.9	8.5	1.9	4.7	.46	.18
24	42	82	2.9	3.1	4.6	2.9	2.1	2.6	1.4	2.4	.48	.20
25	22	9.6	2.7	2.8	3.6	5.7	1.9	2.1	1.2	.61	.46	.29
26	6.6	4.0	2.2	2.3	12	5.3	1.6	1.6	1.0	137	.39	.21
27	3.9	31	2.4	2.9	4.0	6.2	1.5	1.5	.95	12	.38	7.1
28	3.1	5.5	2.4	2.5	3.2	3.4	1.4	1.4	.93	2.1	.49	4.0
29	2.6	7.1	2.1	2.8	3.0	15	1.4	1.7	.98	6.2	.40	11
30	2.3	4.0	2.5	11	------	4.7	1.4	1.9	.75	3.9	.37	27
31	6.0	------	2.8	4.3	------	31	------	1.8	------	40	.28	------
TOTAL	793.7	242.4	289.4	438.9	439.3	196.0	122.0	275.9	182.75	257.62	41.03	78.81
MEAN	25.6	8.08	9.34	14.2	15.1	6.32	4.07	8.90	6.09	8.31	1.32	2.63
MAX	226	82	52	196	127	50	22	67	74	137	7.2	27
MIN	1.3	1.1	2.1	1.8	2.5	1.6	1.4	1.3	.63	.55	.28	.18
CFSM	3.67	1.16	1.34	2.03	2.16	.91	.58	1.28	.87	1.19	.19	.38
IN.	4.23	1.29	1.54	2.34	2.34	1.04	.65	1.47	.97	1.37	.22	.42

CAL YR 1971 TOTAL 4,467.86 MEAN 12.2 MAX 277 MIN .40 CFSM 1.75 IN 23.81
WTR YR 1972 TOTAL 3,357.81 MEAN 9.17 MAX 226 MIN .18 CFSM 1.31 IN 17.90

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-10	0100	6.47	515	2- 3	1300	4.39	510
10-16	0645	8.98	981	7-26	2100	7.88	1,130
1-10	1515	5.28	670				

02146900 Twelve Mile Creek near Waxhaw, N. C.

LOCATION.--Lat 34°57'06", long 80°45'23", Union County, on left bank 90 ft upstream from bridge on State Highway 16, 680 ft downstream from West Fork Twelve Mile Creek, and 2.5 miles north of Waxhaw.

DRAINAGE AREA.--72.4 sq mi.

PERIOD OF RECORD.--Occasional low flow measurements, water years 1949-60, October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 489.04 ft above mean sea level. Prior to Mar. 13, 1962, water-stage recorder at site 70 ft downstream at same datum.

AVERAGE DISCHARGE.--12 years, 64.0 cfs (12.00 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,620 cfs Jan. 11 (gage height, 14.23 ft); minimum, 1.0 cfs Sept. 15, 16, 17, 18 (gage height, 1.30 ft).
Period of record: Maximum discharge, 4,350 cfs Oct. 16, 1964 (gage height, 16.94 ft); no flow Oct. 6, 1968, Oct. 7-15, 1970.
Maximum stage known since at least 1900, 23.6 ft Sept. 7, 1949, from floodmarks. No flow observed on Oct. 6, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	67	48	41	95	47	182	22	29	11	29	2.6
2	800	141	38	37	1,070	47	93	21	25	9.5	14	2.1
3	125	331	42	36	772	46	67	43	23	9.6	9.9	2.0
4	45	174	60	34	595	41	56	51	22	13	8.1	1.9
5	27	70	255	51	147	40	52	30	21	24	6.8	2.4
6	175	52	502	45	112	37	47	24	20	40	6.0	2.4
7	58	44	255	35	115	35	44	24	19	19	5.8	2.3
8	27	37	127	32	86	36	317	31	17	13	5.7	2.1
9	87	33	81	31	71	36	100	53	14	11	5.5	1.9
10	1,110	32	67	895	64	33	63	36	12	9.3	9.5	1.7
11	341	32	60	1,660	60	32	54	29	11	8.8	7.7	1.6
12	90	30	53	321	65	32	67	27	9.7	11	6.0	1.4
13	51	29	64	465	340	32	72	26	9.2	14	13	1.4
14	38	28	57	326	130	33	54	146	9.0	13	19	1.2
15	31	27	49	130	89	32	46	301	8.6	9.3	11	1.1
16	843	27	68	83	74	36	40	133	8.4	9.5	8.3	1.0
17	252	26	260	64	116	163	36	60	7.9	83	7.7	1.1
18	83	25	175	62	132	99	32	44	12	79	6.6	1.4
19	53	25	77	62	323	51	31	47	9.9	27	5.7	1.7
20	41	32	88	57	128	40	31	52	72	19	5.0	1.7
21	52	29	183	64	84	37	29	53	793	12	4.3	1.5
22	87	24	85	66	74	310	31	46	134	9.3	3.8	1.4
23	274	22	59	62	63	110	46	139	42	8.2	3.3	1.3
24	278	245	52	55	71	60	35	68	26	8.6	3.0	1.3
25	1,120	320	50	51	67	49	30	43	20	7.3	2.7	1.3
26	166	82	47	43	68	58	27	39	17	6.9	2.4	1.2
27	91	91	45	41	81	84	25	31	15	12	3.1	1.2
28	64	98	42	42	57	76	24	29	13	89	6.2	1.8
29	51	68	40	43	51	163	24	27	13	18	5.0	3.0
30	46	71	38	117	------	167	22	28	13	16	4.1	8.0
31	64	------	48	176	------	264	------	34	------	19	3.1	------
TOTAL	6,602	2,312	3,115	5,227	5,200	2,326	1,777	1,737	1,445.7	639.3	231.3	57.0
MEAN	213	77.1	100	169	179	75.0	59.2	56.0	48.2	20.6	7.46	1.90
MAX	1,120	331	502	1,660	1,070	310	317	301	793	89	29	8.0
MIN	27	22	38	31	51	32	22	21	7.9	6.9	2.4	1.0
CFSM	2.94	1.06	1.38	2.33	2.47	1.04	.82	.77	.67	.28	.10	.03
IN.	3.39	1.19	1.60	2.69	2.67	1.20	.91	.89	.74	.33	.12	.03

CAL YR 1971 TOTAL 35,624.5 MEAN 97.6 MAX 1,980 MIN 4.8 CFSM 1.35 IN 18.30
WTR YR 1972 TOTAL 30,669.3 MEAN 83.8 MAX 1,660 MIN 1.0 CFSM 1.16 IN 15.76

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-25	1000	12.21	1,640	1-11	0330	14.23	2,620

02149000 Cove Creek near Lake Lure, N. C.

LOCATION.--Lat 35°25'24", long 82°06'42", Rutherford County, on left bank 40 ft upstream from bridge on U. S. Highways 64 and 74, 1 mile upstream from mouth, and 5 miles east of town of Lake Lure.

DRAINAGE AREA.--77.0 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-50. October 1950 to current year. Monthly discharge only for some periods, published in WSP 1723.

GAGE.--Water-stage recorder. Datum of gage is 815.4 ft above mean sea level. Prior to Dec. 20, 1954, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--22 years, 120 cfs (21.12 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,870 cfs June 21 (gage height, 11.38 ft); minimum, 55 cfs Sept. 17 (gage height, 2.06 ft).
Period of record: Maximum discharge, 7,050 cfs June 5, 1957 (gage height, 18.53 ft); minimum, 21 cfs Sept. 8, 9, 28, 30, Oct. 1-3, 5-7, 11-13, 1954.
Flood of 1916 reached a stage of about 23 ft, from records of North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	354	116	99	107	112	172	98	127	125	107	71
2	58	468	108	105	110	123	159	96	122	152	96	69
3	58	265	120	101	125	135	147	288	119	145	92	66
4	58	193	129	122	118	116	139	387	115	125	86	66
5	63	159	133	123	108	114	131	188	112	146	90	93
6	74	143	357	110	110	108	127	149	109	123	86	80
7	60	133	993	107	110	108	123	133	111	117	89	72
8	57	122	464	103	105	116	131	170	105	113	106	69
9	69	116	265	107	105	107	116	184	104	110	87	69
10	86	112	210	155	103	105	114	145	102	109	88	65
11	64	107	184	243	103	103	114	129	99	105	89	64
12	61	105	164	205	112	103	149	123	96	105	89	64
13	60	103	151	218	228	103	137	131	95	104	105	62
14	60	99	141	354	159	101	137	1,130	94	101	87	60
15	66	98	139	210	141	99	125	404	91	102	82	60
16	336	96	135	166	129	116	120	258	90	107	92	59
17	99	94	129	149	131	122	116	210	90	115	84	76
18	82	92	123	141	135	107	110	186	123	105	81	80
19	75	91	122	135	139	105	108	203	107	99	82	66
20	72	91	127	129	127	101	107	248	1,160	102	79	62
21	131	89	122	129	125	118	116	312	1,390	93	77	63
22	648	87	116	129	125	579	133	300	344	91	76	62
23	524	86	112	129	122	223	125	255	231	89	73	63
24	390	125	112	122	122	166	116	210	190	86	75	65
25	235	118	110	118	120	153	110	179	168	84	89	65
26	170	110	110	114	120	147	107	159	153	97	97	63
27	141	110	108	116	114	151	105	147	143	103	94	80
28	123	107	107	116	112	141	101	143	147	89	88	79
29	114	135	103	112	110	155	99	141	149	94	75	133
30	108	131	105	112	------	153	99	143	132	114	72	265
31	225	------	105	108	------	172	------	139	------	121	70	------
TOTAL	4,425	4,139	5,520	4,387	3,575	4,362	3,693	6,988	6,218	3,371	2,683	2,311
MEAN	143	138	178	142	123	141	123	225	207	109	86.5	77.0
MAX	648	468	993	354	228	579	172	1,130	1,390	152	107	265
MIN	57	86	103	99	103	99	99	96	90	84	70	59
CFSM	1.86	1.79	2.31	1.84	1.60	1.83	1.60	2.92	2.69	1.42	1.12	1.00
IN.	2.14	2.00	2.67	2.12	1.73	2.11	1.78	3.38	3.00	1.63	1.30	1.12

CAL YR 1971 TOTAL 45,399 MEAN 124 MAX 993 MIN 54 CFSM 1.61 IN 21.93
WTR YR 1972 TOTAL 51,672 MEAN 141 MAX 1,390 MIN 57 CFSM 1.83 IN 24.96

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-22	1400	5.22	909	5-14	0730	9.33	2,110
12- 7	1200	6.97	1,390	6-21	0300	11.38	2,870
3-22	0330	6.15	1,160				

02151000 Second Broad River at Cliffside, N. C.

LOCATION.--Lat 35°14'08", long 81°45'57", Rutherford County, on left bank 0.2 mile downstream from dam at Cliffside Mills, at Cliffside, and 1.3 miles upstream from mouth.

DRAINAGE AREA.--211 sq mi.

PERIOD OF RECORD.--June 1925 to current year.

GAGE.--Water-stage recorder. Datum of gage is 670.5 ft above mean sea level (levels by Soil Conservation Service).

AVERAGE DISCHARGE.--47 years, 300 cfs (19.32 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,880 cfs Dec. 7 (gage height, 6.20 ft); minimum, 22 cfs July 1 (gage height, 0.75 ft); minimum daily, 70 cfs Sept. 23.
Period of record: Maximum discharge, 15,000 cfs Aug. 14, 1940 (gage height, 17.93 ft); minimum, 4 cfs Sept. 27, 1935, Aug. 3, 1937, July 24, 1943; minimum daily, 6 cfs June 9, 1940.

REMARKS.--Records good. Considerable diurnal fluctuation and some low-flow regulation by mills above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 892: 1928(M), drainage area. WSP 1553: 1935-39(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	991	296	237	262	257	405	254	302	273	210	135
2	134	769	274	251	266	339	384	237	288	231	176	113
3	156	841	268	267	305	354	353	259	218	307	187	103
4	138	654	318	272	337	319	334	654	241	267	184	130
5	156	481	338	338	277	305	306	459	273	335	161	192
6	252	396	539	293	280	304	290	324	216	295	176	243
7	195	348	2,760	273	291	264	290	283	241	243	168	156
8	122	325	2,660	252	266	303	313	320	209	237	201	156
9	150	309	920	263	250	300	287	469	237	209	172	115
10	234	281	640	463	267	260	292	348	210	253	191	138
11	189	285	520	875	251	262	263	299	204	196	211	137
12	198	260	439	849	282	263	315	285	230	210	196	157
13	168	239	390	771	596	272	374	241	210	207	140	136
14	164	237	363	1,040	517	256	322	1,270	217	191	155	110
15	145	266	349	695	404	260	327	1,020	209	181	160	122
16	1,990	216	345	524	356	262	301	750	201	192	169	140
17	854	252	326	435	343	323	298	536	166	198	180	89
18	394	249	301	396	343	273	280	429	217	309	164	164
19	307	188	282	364	379	266	250	404	262	205	167	166
20	242	217	305	345	341	273	277	496	731	221	162	172
21	243	223	317	343	318	263	243	789	3,170	103	184	89
22	591	235	287	323	307	894	304	661	1,610	169	168	186
23	1,810	195	261	337	297	648	331	522	575	189	104	70
24	1,600	285	267	315	295	443	293	443	417	176	183	128
25	839	402	265	299	291	375	282	378	354	336	154	140
26	569	293	264	288	269	369	262	334	324	231	136	152
27	433	281	266	283	274	361	253	290	288	181	135	112
28	365	277	256	282	276	342	245	285	280	95	209	145
29	325	289	252	277	270	367	224	295	297	141	181	226
30	334	335	258	278	------	388	230	302	283	194	149	232
31	316	------	247	275	------	372	------	366	------	238	151	------
TOTAL	13,760	10,619	15,573	12,503	9,210	10,537	8,928	14,002	12,680	6,813	5,284	4,354
MEAN	444	354	502	403	318	340	298	452	423	220	170	145
MAX	1,990	991	2,760	1,040	596	894	405	1,270	3,170	336	211	243
MIN	122	188	247	237	250	256	224	237	166	95	104	70
CFSM	2.10	1.68	2.38	1.91	1.51	1.61	1.41	2.14	2.00	1.04	.81	.69
IN.	2.43	1.87	2.75	2.20	1.62	1.86	1.57	2.47	2.24	1.20	.93	.77

CAL YR 1971 TOTAL 127,629 MEAN 350 MAX 2,760 MIN 92 CFSM 1.66 IN 22.50
WTR YR 1972 TOTAL 124,263 MEAN 340 MAX 3,170 MIN 70 CFSM 1.61 IN 21.91

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-16	0230	5.35	3,120	6-21	2230	5.84	3,560
12- 7	1130	6.20	3,880				

02151500 Broad River near Boiling Springs, N. C.

LOCATION.--Lat 35°12'39", long 81°41'52", Cleveland County, on right bank 0.5 mile upstream from Sandy Run Creek and bridge on Secondary Road 1186, 3 miles downstream from Second Broad River, and 3.5 miles southwest of Boiling Springs.

DRAINAGE AREA.--864 sq mi.

PERIOD OF RECORD.--June 1925 to current year.

GAGE.--Water-stage recorder. Datum of gage is 639.92 ft above mean sea level (Duke Power Co. bench mark). Prior to July 20, 1934, at site 500 ft upstream at datum 1 ft higher.

AVERAGE DISCHARGE.--47 years, 1,444 cfs (22.69 inches per year).

EXTREMES.--Current year: Maximum discharge, 20,000 cfs June 22 (gage height, 12.00 ft); minimum, 450 cfs Oct. 13 (gage height, 1.74 ft); minimum daily, 676 cfs Oct. 4.
Period of record: Maximum discharge, 73,300 cfs Aug. 16, 1928 (gage height, 24.3 ft, former site, present datum); minimum, 40 cfs Oct. 17, 1954 (gage height, 1.02 ft); minimum daily, 105 cfs Oct. 10, 1954.

REMARKS.--Records good. Considerable diurnal fluctuation and some regulation caused by powerplants above station.

REVISIONS (WATER YEARS).--WSP 892: 1928, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	898	3,540	1,640	1,470	1,530	1,460	1,830	1,030	1,740	1,810	1,530	856
2	802	3,650	1,550	1,470	1,550	1,730	1,760	1,440	1,580	1,480	1,290	845
3	730	4,700	1,670	1,620	1,580	1,770	1,460	1,580	1,540	2,080	1,230	787
4	676	3,750	1,790	1,940	1,850	1,950	1,790	3,110	1,520	2,060	1,140	831
5	910	3,160	2,030	2,000	1,680	1,530	1,740	2,360	1,170	1,970	1,130	1,060
6	934	2,280	2,230	1,700	1,550	1,220	1,670	1,800	1,690	1,940	967	1,280
7	970	2,120	11,600	1,620	1,400	1,770	1,650	1,190	1,510	1,950	998	1,300
8	814	2,130	11,500	1,520	1,550	1,720	1,740	1,560	1,290	1,710	1,660	959
9	790	1,850	5,060	1,500	1,380	1,540	1,700	2,690	1,410	1,330	1,430	847
10	982	1,670	3,920	2,320	1,410	1,460	1,310	2,150	1,430	1,430	1,380	934
11	958	1,830	3,570	4,110	1,380	1,460	1,580	1,620	1,350	1,800	1,430	759
12	886	1,650	2,770	3,560	1,410	1,380	1,800	1,470	1,040	1,610	1,410	870
13	703	1,370	2,630	3,440	1,500	1,170	2,240	1,320	1,280	1,300	1,100	837
14	814	1,260	2,530	3,900	2,820	1,430	1,860	6,010	1,360	1,300	1,130	794
15	870	1,220	1,980	3,380	2,310	1,410	1,730	5,490	1,440	1,400	1,260	800
16	9,400	1,790	2,710	2,630	1,980	1,530	1,680	4,010	1,400	1,330	1,180	827
17	2,980	1,640	2,690	2,400	1,560	1,670	1,220	3,160	1,090	1,240	1,320	714
18	1,500	1,490	2,070	2,310	1,710	1,580	1,610	2,930	1,010	1,590	1,310	910
19	1,490	1,550	1,860	1,850	2,130	1,470	1,380	2,320	1,350	1,510	1,150	886
20	1,210	1,400	1,980	1,710	1,760	1,140	1,620	3,090	4,400	1,490	993	878
21	1,140	1,190	2,030	1,830	1,850	1,520	1,460	4,310	18,800	1,400	852	777
22	3,090	1,070	1,740	2,000	1,590	3,360	1,940	3,640	11,300	1,130	1,160	883
23	11,100	1,380	1,910	2,200	1,550	3,000	1,980	3,010	4,290	1,300	1,090	748
24	8,860	1,590	1,890	1,760	1,610	2,470	1,260	2,450	3,500	1,020	1,160	828
25	4,870	2,240	1,650	1,640	1,500	1,850	1,670	2,480	2,880	1,630	1,130	837
26	3,720	1,800	1,370	1,650	1,370	1,610	1,530	2,100	2,230	1,260	995	877
27	2,900	1,610	1,610	1,590	1,320	1,710	1,410	1,980	2,460	1,440	847	780
28	2,270	1,560	1,530	1,760	1,260	1,830	1,400	1,860	2,190	1,640	955	846
29	1,850	1,300	1,800	1,920	1,530	1,760	1,230	1,700	1,990	1,700	1,000	1,340
30	1,890	1,970	1,760	1,610	------	2,290	1,250	2,030	2,280	1,750	977	1,180
31	1,890	------	1,560	1,590	------	1,950	------	2,090	------	1,450	914	------
TOTAL	72,897	59,760	86,650	66,000	47,620	53,740	48,500	77,980	82,520	48,050	36,118	27,070
MEAN	2,352	1,992	2,795	2,129	1,642	1,734	1,617	2,515	2,751	1,550	1,165	902
MAX	11,100	4,700	11,600	4,110	2,820	3,360	2,240	6,010	18,800	2,080	1,660	1,340
MIN	676	1,070	1,370	1,470	1,260	1,140	1,220	1,030	1,010	1,020	847	714
CFSM	2.72	2.31	3.24	2.46	1.90	2.01	1.87	2.91	3.18	1.79	1.35	1.04
IN.	3.14	2.57	3.73	2.84	2.05	2.31	2.09	3.36	3.55	2.07	1.56	1.17

CAL YR 1971 TOTAL 600,068 MEAN 1,644 MAX 11,600 MIN 556 CFSM 1.90 IN 25.84
WTR YR 1972 TOTAL 706,905 MEAN 1,931 MAX 18,800 MIN 676 CFSM 2.24 IN 30.44

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-16	0430	10.79	17,200	12- 7	2030	10.12	15,700
10-23	1800	9.00	13,300	6-22	0100	12.00	20,000

02152100 First Broad River near Casar, N. C.

LOCATION.--Lat 35°29'35", long 81°40'56", Cleveland County, on right bank 570 ft upstream from bridge on Secondary Road 1530, 0.5 mile upstream from No Business Creek, and 4.0 miles southwest of Casar.

DRAINAGE AREA.--59.5 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-56, March 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 890 ft (from topographic map).

AVERAGE DISCHARGE.--13 years, 89.4 cfs (20.41 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,860 cfs Dec. 7, June 21 (gage height, 7.40 ft); minimum, 32 cfs Sept. 16, 17 (gage height, 1.21 ft).
Period of record: Maximum discharge, 6,580 cfs Aug. 10, 1970 (gage height, 15.22 ft); minimum, 17 cfs July 20, 1970 (gage height, 0.97 ft).
Flood of 1916 and August 1940 reached a stage of about 25 ft, from information by local resident.
A discharge of 14.5 cfs was measured on Sept. 21, 1955.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	455	74	72	76	79	117	71	75	75	57	39
2	42	278	67	75	78	98	112	70	75	78	56	37
3	38	300	74	72	94	105	102	91	73	82	56	36
4	38	200	79	67	96	93	97	265	71	73	52	37
5	53	146	84	94	81	89	91	122	70	105	52	65
6	57	110	187	85	81	83	89	95	68	77	51	50
7	41	95	1,090	80	81	81	88	85	71	68	51	42
8	38	85	396	76	77	92	93	125	66	69	51	40
9	48	76	196	78	75	82	82	143	65	64	47	40
10	69	72	148	145	74	79	80	106	65	65	53	38
11	47	70	129	278	74	77	81	90	64	64	51	36
12	43	67	114	208	82	76	108	85	60	65	52	36
13	41	66	105	214	238	76	100	86	60	64	47	35
14	40	64	98	369	146	76	93	549	59	61	47	34
15	40	62	98	184	117	74	88	345	55	61	44	34
16	195	60	95	136	103	85	85	255	55	60	57	33
17	80	58	92	117	102	88	81	155	55	63	49	39
18	62	57	87	109	100	79	78	127	64	59	48	45
19	55	57	83	103	102	76	76	135	62	57	50	39
20	51	56	92	98	91	74	75	124	279	63	45	35
21	54	54	87	101	88	74	79	145	1,030	57	43	35
22	183	52	82	96	88	407	91	130	220	60	42	35
23	297	52	78	95	85	176	86	119	131	56	41	34
24	310	87	79	90	87	126	85	105	107	55	41	36
25	160	76	78	86	85	114	86	95	93	55	41	36
26	115	68	76	82	86	108	78	87	87	53	42	35
27	90	70	75	82	81	109	76	83	82	52	44	36
28	77	68	75	82	79	102	73	82	82	58	72	38
29	68	83	73	80	78	108	72	85	101	105	44	78
30	64	89	75	80	------	105	72	94	88	82	40	94
31	375	------	77	77	------	115	------	86	------	62	39	------
TOTAL	2,910	3,137	4,244	3,631	2,719	3,205	2,614	4,235	3,534	2,068	1,505	1,247
MEAN	93.9	105	137	117	93.8	103	87.1	137	118	66.7	48.5	41.6
MAX	375	465	1,090	369	238	407	117	549	1,030	105	72	94
MIN	38	52	67	72	74	74	72	70	55	52	39	33
CFSM	1.58	1.76	2.30	1.97	1.58	1.73	1.46	2.30	1.98	1.12	.82	.70
IN.	1.82	1.96	2.65	2.27	1.70	2.00	1.63	2.65	2.21	1.29	.94	.78

CAL YR 1971 TOTAL 34,809 MEAN 95.4 MAX 1,090 MIN 38 CFSM 1.60 IN 21.76
WTR YR 1972 TOTAL 35,051 MEAN 95.8 MAX 1,090 MIN 33 CFSM 1.61 IN 21.91

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	1300	7.40	1,860	6-21	0800	7.40	1,860

02152610 Sugar Branch near Boiling Springs, N. C.

LOCATION.--Lat 35°15'00", long 81°37'20", Cleveland County, on left downstream wingwall of culvert on State Highway 150, 0.5 mile upstream from mouth, and 2.8 miles east of Boiling Springs.

DRAINAGE AREA.--1.49 sq mi.

PERIOD OF RECORD.--Annual maximum, water years 1954-68, June 1968 to current year.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Datum of gage is 696.83 ft above mean sea level. June 10, 1953 to May 31, 1968, crest-stage gage on left bank 31 ft upstream from culvert entrance at datum 16.37 ft higher.

EXTREMES.--Current year: Maximum discharge, 1,110 cfs Oct. 16 (gage height, 6.58 ft), from rating curve extended as explained below; minimum, 0.53 cfs Sept. 2, 3, 14, 16 (gage height, 1.12 ft).
Period of record: Maximum discharge, 1,110 cfs Oct. 16, 1971 (gage height, 6.58 ft), from rating curve extended above 120 cfs on basis of computation of peak flow through culvert; minimum, 0.19 cfs Sept. 7, 1968 (gage height, 0.95 ft).

REMARKS.--Records fair. Some diurnal fluctuation at low flow during growing season. Recording rain gage located at station.

REVISIONS (WATER YEARS).--WRD N. C. 1970: 1968(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	6.3	2.0	1.8	1.9	2.4	2.5	1.5	1.8	1.4	1.1	.68
2	1.0	5.3	1.9	1.9	2.0	2.8	2.3	3.3	1.7	1.4	1.0	.67
3	.87	17	2.1	1.8	3.6	2.4	2.2	7.6	1.6	1.4	.98	.64
4	.85	3.0	2.2	3.2	2.4	2.2	2.2	2.3	1.6	1.7	.95	.92
5	.94	2.5	3.4	2.3	2.3	2.0	2.1	2.0	1.5	1.8	.92	2.9
6	.92	2.3	21	2.1	2.3	1.9	2.0	1.8	1.6	1.5	.91	.92
7	.81	2.1	29	2.1	2.2	1.9	2.2	1.8	1.5	1.4	.93	.83
8	.79	2.0	4.1	2.0	2.1	2.3	2.8	18	1.4	1.4	.93	.80
9	.92	1.9	2.9	2.2	2.0	1.9	2.0	3.7	1.4	1.3	5.6	.80
10	.95	1.9	2.6	20	2.0	1.9	2.0	2.4	1.4	1.2	1.4	.73
11	.83	1.9	2.5	9.6	2.0	1.8	2.0	2.2	1.3	1.4	3.4	.72
12	.80	1.9	2.3	3.7	2.9	1.8	2.9	2.0	1.4	1.3	1.3	.72
13	.80	1.9	2.3	7.2	5.4	1.8	2.2	2.1	1.3	1.2	1.1	.70
14	.79	1.8	2.2	6.0	2.6	1.8	2.1	43	1.3	1.2	1.1	.67
15	3.2	1.8	2.1	4.0	2.3	1.7	2.0	8.0	1.2	1.1	1.0	.65
16	94	1.7	2.1	3.3	2.1	2.1	1.9	3.1	1.2	1.1	1.4	.64
17	4.1	1.7	2.1	2.8	2.2	2.5	1.8	2.5	1.2	1.1	1.1	1.3
18	3.2	1.6	2.0	2.5	2.4	2.0	1.8	2.3	1.3	1.1	1.1	.83
19	2.0	1.6	2.0	2.4	2.4	1.9	1.7	3.0	1.4	5.2	1.0	.75
20	1.6	1.5	2.6	2.3	2.1	1.8	1.7	10	22	1.1	.89	.71
21	1.7	1.4	2.2	2.3	2.1	2.0	1.7	4.3	45	1.1	.92	.70
22	5.1	1.4	2.1	2.3	2.0	12	2.7	13	3.8	1.0	.89	.70
23	35	1.4	2.1	2.2	2.0	2.8	1.9	3.4	2.6	1.0	.87	.70
24	5.7	4.3	2.1	2.1	2.0	2.5	1.9	2.7	2.0	1.0	.85	.70
25	3.5	2.3	2.0	2.0	1.9	2.4	1.8	2.5	1.8	1.0	.84	.70
26	2.5	2.0	2.0	2.0	1.9	2.3	1.7	2.2	1.7	1.1	.83	.64
27	2.2	2.3	2.0	2.0	1.8	2.3	1.6	2.1	1.6	1.0	.82	5.6
28	2.0	2.0	2.0	2.0	1.8	2.2	1.6	2.0	1.7	1.0	.81	1.1
29	1.9	2.4	1.9	2.0	1.7	3.3	1.6	2.0	1.6	1.1	.76	1.3
30	1.8	2.1	1.9	2.0	------	2.5	1.5	2.0	1.5	1.1	.71	2.4
31	7.7	------	1.9	1.9	------	2.7	------	1.9	------	1.2	.68	------
TOTAL	189.36	83.3	115.6	106.0	66.4	77.9	60.4	160.7	112.4	41.9	37.09	32.12
MEAN	6.11	2.78	3.73	3.42	2.29	2.51	2.01	5.18	3.75	1.35	1.20	1.07
MAX	94	17	29	20	5.4	12	2.9	43	45	5.2	5.6	5.6
MIN	.79	1.4	1.9	1.8	1.7	1.7	1.5	1.5	1.2	1.0	.68	.64
CFSM	4.10	1.87	2.50	2.30	1.54	1.68	1.35	3.48	2.52	.91	.81	.72
IN.	4.73	2.08	2.89	2.65	1.66	1.94	1.51	4.01	2.81	1.05	.93	.80

CAL YR 1971 TOTAL 969.62 MEAN 2.66 MAX 94 MIN .53 CFSM 1.79 IN 24.21
WTR YR 1972 TOTAL 1,083.17 MEAN 2.96 MAX 94 MIN .64 CFSM 1.99 IN 27.04

PEAK DISCHARGE (BASE, 110 CFS, revised)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-16	0205	6.58	1,110	5-14	0320	4.49	378
5- 8	1605	3.05	172	6-21	0145	4.10	316

Lakes and Reservoirs in South Atlantic Slope basin

02067800; 02067820 TALBOTT AND TOWNES RESERVOIRS 1/.--On Dan River. The two reservoirs are operated as a unit for storage of water for Pinnacles hydroelectric plant. Talbott Dam (drainage area, 20.2 sq mi), lat 36°40' 36", long 80°23'51", Patrick County, Va., 4.5 miles northeast of Kibler. Townes Dam (drainage area, 32.9 sq mi), lat 36°41'11", long 80°25'49", Patrick County, Va., 4 miles north of Kibler. Records available, February 1939 to December 1945 and January 1948 to September 1960 (combined month-end contents only published in WSP 1723), October 1960 to current year.
Total capacity of Talbott Reservoir, 350,000,000 cu ft and Townes Reservoir, 60,000,000 cu ft. Storage was started in Talbott Reservoir on Feb. 13, 1939, and in Townes Reservoir several months earlier. Records furnished by City of Danville, Va. (See sta 02068500)

02077280 HYCO LAKE.--Lat 36°30'28", long 79°02'48", Person County, at outlet control structure 0.4 mile northwest of dam on Hyco River, 1.1 miles southwest of McGehees Mill and 8 miles northwest of Roxboro. Drainage area 189 sq mi. Records available October 1964 to current year. Prior to October 1970 published as "Roxboro Steam-Electric Generating Plant Lake". Gage, water-stage recorder and tape gage. Prior to Feb. 11, 1965 staff gage at upstream end of outlet control structure. Datum of gage is 399.79 ft above mean sea level, unadjusted (levels by Carolina Power and Light Co).
Lake, used for cooling water at the Roxboro Steam-electric Generating Plant of Carolina Power and Light Co. first began to fill Sept. 19, 1964 and first reached spillway elevation (9.97 ft gage height) Mar. 19, 1965. Total capacity at top of spillway is 3,288,000,000 cu ft. Lake cannot be drawn below -0.03 ft (bottom of gated flume). (See sta 02077300)

02079964 LAKE GASTON.--Lat 36°30'04", long 77°48'43", Halifax County, at Gaston Dam on Roanoke River, 0.2 mile upstream from Black Gut Creek, and 2.7 miles northwest of Thelma. Drainage area, 8,339 sq mi. Records available, October 1962 to current year. Gage, water-stage recorder and staff gage. Datum of gage is at mean sea level.
Lake, used mainly for hydroelectric power development, was first filled Oct. 13-15, 1962, and has a total capacity of 22,434,000,000 cu ft. Usable capacity is 20,127,000,000 cu ft between elevations 165 ft and 203 ft (top of spillway gates) of which 2,788,000,000 cu ft between elevations 200 ft and 203 ft is reserved for flood control. Storage for power generation is 10,673,000,000 cu ft between elevations 185 ft and 200 ft. Records furnished by Virginia Electric and Power Co. (See sta 02080500)

02080100 ROANOKE RAPIDS LAKE.--Lat 36°29'10", long 77°39'31", Halifax County, at Roanoke Rapids Dam on Roanoke River, 1.5 miles upstream from bridge on State Highway 48, and 2.2 miles north of Roanoke Rapids. Drainage area, 8,395 sq mi. Records available, June 1955 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, water-stage recorder and staff gage. Datum of gage is at mean sea level.
Lake, used for hydroelectric power development, was put in operation June 25, 1955, and has a total capacity of 3,360,220,000 cu ft at normal highwater elevation of 132.0 ft and 3,515,290,000 cu ft at elevation 132.75 ft (top of gates). Records furnished by Virginia Electric and Power Co. (See sta 02080500)

02086490 LAKE MICHIE.--Lat 36°09'02", long 78°49'49", Durham County, at Durham municipal dam on Flat River, 3 miles southeast of Bahama, and 5 miles upstream from confluence with Eno River. Drainage area, 170 sq mi, approximately. Records available, October 1962 to current year. Gage, water-stage recorder and wire-weight gage at dam. Datum of gage is 0.47 ft below mean sea level.
Lake, used for municipal water supply, began filling in May 1926 and reached spillway elevation Dec. 26, 1926. Total capacity is 618,000,000 cu ft between elevations (gage datum) 300.0 ft and 341 ft (crest of spillway). (See sta 02087000)

02111391 W. KERR SCOTT RESERVOIR.--Lat 36°08'04", long 81'13'30", Wilkes County, at W. Kerr Scott Dam on Yadkin River, 0.1 mile upstream from Fish Trap Creek, 2.0 miles upstream from Millers Creek, and 4.0 miles west of Wilkesboro. Drainage area, 350 sq mi, approximately. Records available, August 1962 to current year. Gage, water-stage recorder and staff gage at dam. Datum of gage is at mean sea level.
Lake, used for flood control, low-flow augmentation and recreation. Some storage was affected during construction in July 1962, but gates were closed Aug. 22, 1962, and reservoir reached minimum pool elevation on Sept. 11, 1962. Total capacity is 6,664,680,000 cu ft of which 6,316,200,000 cu ft is controlled storage. Records furnished by Corps of Engineers. (See sta 02129000)

02122400 HIGH ROCK LAKE.--Lat 35°36'02", long 80°14'06", Davidson County, at High Rock Dam on Yadkin River, 0.8 mile northwest of High Rock, 2 miles upstream from Lick Creek, and 256 miles upstream from mouth of Pee Dee River in Winyah Bay. Drainage area, 4,000 sq mi, approximately. Records available, November 1927 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft below mean sea level.
Lake, used for hydroelectric power development, was first put in operation Nov. 7, 1927. Total capacity is 11,090,000,000 cu ft and usable capacity is 10,230,000,000 cu ft between elevations 625 ft and 655 ft gage datum (top of gates). Records furnished by Yadkin, Inc. (See sta 02129000)

02122699 TUCKERTOWN RESERVOIR.--Lat 35°29'03", long 80°10'30", Stanly County, at Tuckertown Dam on Yadkin River, 2.5 miles upstream from Garr Creek, 3.8 miles northeast of New London, and 250 miles upstream from mouth of Pee Dee River in Winyah Bay. Drainage area, 4,120 sq mi, approximately. Records available April 1962 to current year. Gage, remote water-stage recorder in powerhouse. Datum of gage is 30.9 ft below mean sea level.
Lake, used for hydroelectric power development, was first filled Apr. 6, 1962. Total capacity is 1,852,400,000 cu ft and usable capacity is 293,800,000 cu ft between elevations 593 ft and 596 ft gage datum. Records furnished by Yadkin, Inc. (See sta 02129000).

02122844 BADIN LAKE.--Lat 35°25'10", long 80°05'34", Stanly County, at Badin Dam on Yadkin River, 1.5 miles northeast of Badin, 2.5 miles upstream from Falls Dam, and 242 miles upstream from mouth of Pee Dee River in Winyah Bay. Drainage area, 4,180 sq mi, approximately. Records available, December 1917 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft below mean sea level.
Lake (generally known as Narrows Reservoir), used for hydroelectric power development, was first put in operation July 12, 1917. Total capacity is 10,497,960,000 cu ft and usable capacity is 5,616,584,000 cu ft between elevations 510.00 ft and 541.10 ft. Records furnished by Yadkin, Inc. (See sta 02129000)

1/ Included in this report because they materially affect runoff at Dan River near Francisco.

Lakes and Reservoirs in South Atlantic Slope basin--Continued

02123736 LAKE TILLERY.--Lat 35°12'24", long 80°03'57", Stanly County, at Norwood Dam on Pee Dee River, 700 ft upstream from Norfolk Southern Railroad bridge, 3.5 miles southeast of Norwood, 5 miles upstream from Rocky River, and 224 miles upstream from mouth in Winyah Bay. Drainage area, 4,600 sq mi, approximately. Records available, February 1928 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, water-stage recorder and float-tape gage at dam. Datum of gage is 38.67 ft above mean sea level (levels by Carolina Power and Light Co.).

Lake, used for hydroelectric power development, was first put in operation during January 1928. Total capacity is 7,274,520,000 cu ft and usable capacity is 5,927,040,000 cu ft between elevations 200.5 ft and 239.5 ft gage datum (top of gates). Records furnished by Carolina Power and Light Co. (See sta 02129000).

02128800 BLEWETT FALLS LAKE.--Lat 34°58'58", long 79°52'40", Richmond County, at Blewett Falls Dam on Pee Dee River, 1.2 miles upstream from Cartledge Creek, 6.5 miles northwest of Rockingham, and 195 miles upstream from mouth in Winyah Bay. Drainage area, 6,830 sq mi, approximately. Records available, December 1929 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, self-synchronous motor, dial indicator and staff gage at dam. Datum of gage is 39.08 ft above mean sea level (levels by Carolina Power and Light Co.).

Lake, used for hydroelectric power development was first put in use during 1911. Total capacity is 4,225,320,000 cu ft and usable capacity is 1,850,000,000 cu ft between elevations 120.0 ft and 139.0 ft gage datum (top of 4-foot flashboards). Records furnished by Carolina Power and Light Co. (See sta 02129000).

02138519 LAKE JAMES.--Lat 35°44'36", long 81°50'22", Burke County, at Linville Dam at intake tower on Catawba River, 2.1 miles northeast of Bridgewater and 279 miles upstream from mouth of Wateree River. Drainage area, 380 sq mi, approximately. Records available, March 1920 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, float gage with self-synchronous motor to indicator in power house. Staff gage at Catawba River Dam is also read when lake elevation drops below 1,160 ft (60 ft, gage datum) and lake becomes two separate reservoirs. Datum of gage is 1,100.00 ft above mean sea level (levels by Duke Power Co.).

Lake (generally known as Bridgewater Reservoir), used for hydroelectric power development, was first put in operation May 5, 1919. The total capacity at elevation 100.0 ft gage datum (crest of spillway) is 12,581,800,000 cu ft and usable capacity is 7,943,700,000 cu ft between elevations (gage datum) 65 ft and 100 ft. Records furnished by Duke Power Co.

02141490 RHODHISS LAKE.--Lat 35°46'54", long 81°26'42", Caldwell County, at Rhodhiss Dam on Catawba River, 0.8 mile west of Rhodhiss, 1.8 miles south of Granite Falls, and 243 miles upstream from mouth of Wateree River. Drainage area, 1,090 sq mi, approximately. Records available, September 1935 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, float gage, indicator and reference point at dam. Datum of gage is 895.1 ft above mean sea level (levels by Duke Power Co.).

Lake, used for hydroelectric power development, was first put in operation Feb. 18, 1925. Total capacity is 3,188,592,000 cu ft and usable capacity is 1,717,000,000 cu ft between elevations (gage datum) 85.0 ft and 100.0 ft (crest of spillway). Records furnished by Duke Power Co.

02141961 LAKE HICKORY.--Lat 35°49'28", long 81°11'28", Alexander County, at Oxford Dam on Catawba River, 2 miles upstream from Lower Little River, 7 miles south of Taylorsville, and 226 miles upstream from mouth of Wateree River. Drainage area, 1,310 sq mi, approximately. Records available, September 1935 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, float gage and indicator at dam. Datum of gage is 835.0 ft above mean sea level (levels by Duke Power Co.).

Lake, (generally known as Oxford Reservoir) used for hydroelectric power development, was first put in operation Apr. 5, 1928. Total capacity is 5,552,985,000 cu ft. Sept. 30, 1935 to Sept. 30, 1957, the usable capacity considered as 2,277,970,200 cu ft between elevations (gage datum) 85.0 ft and 100.0 ft (top of flood gates). From Apr. 30, 1928, to Aug. 31, 1935, and Oct. 31, 1957, to Sept. 30, 1964, usable capacity considered as 3,378,400,000 cu ft between elevations 75.0 ft and 100.0 ft (top of flood gates) from Oct. 1, 1964 to present, usable capacity considered as 2,277,800,000 cu ft between elevations (gage datum) 85.0 ft and 100.0 ft (top of flood gates). Records furnisned by Duke Power Co.

02142441 LOOKOUT SHOALS LAKE.--Lat 35°45'57"long 81°05'36", Catawba County, at Lookout Shoals Dam on Catawba River, 4 miles upstream from bridge on U. S. Highways 64 and 70, 4.2 miles north of Catawba, and 216 miles upstream from mouth of Wateree River. Drainage area, 1,450 sq mi, approximately. Records available, December 1915 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, float gage, indicator and staff gage at dam. Datum of gage is 738.1 ft above mean sea level (levels by Duke Power Co.).

Lake, used for hydroelectric power development, was first put in operation Dec. 2, 1915. Total capacity was originally, 1,355,190,000 cu ft. Capacity has been reduced by silting. Prior to October 1957 the usable capacity considered as 473,980,000 cu ft and October 1957 to Sept. 30, 1964, as 388,300,000 cu ft between elevations (gage datum) 90.0 ft and 100.0 ft (crest of spillway). From Oct. 1, 1964 to present, usable capacity considered as 208,200,000 cu ft between elevations (gage datum) 95.0 ft and 100.0 ft (crest of spillway). Flood of July 16, 1916, washed out an earth dike. Records furnished by Duke Power Co.

02142647 LAKE NORMAN.--Lat 35°26'05", long 80°57'28", Mecklenburg County, at Cowans Ford Dam on Catawba River, 0.8 mile upstream from Derr Creek, 7.8 miles southwest of Davidson, and 182 miles upstream from mouth of Wateree River. Drainage area, 1790 sq mi, approximately. Records available, March 1962 to current year. Gage, float gage with transmitter to dial meter in control room. Datum of gage is 660 ft above mean sea level (levels by Duke Power Co.).

Lake, used for hydroelectric power development began filling in March 1962. Total capacity is 47,586,200,000 cu ft and usable capacity is 26,910,400,000 cu ft between elevations (gage datum) 75.0 ft and 100 ft (top of flood gates). Records furnished by Duke Power Co.

Lakes and Reservoirs in South Atlantic Slope basins--Continued

02142676 MOUNTAIN ISLAND LAKE.--Lat 35°20'03", long 80°59'12", Gaston County, at Mountain Island Dam on Catawba River, 1.5 miles downstream from bridge on State Highway 16, 3 miles northeast of Mount Holly, and 167 miles upstream from mouth of Wateree River. Drainage area, 1,860 sq mi, approximately. Records available, December 1923 to September 1960 (month-end contens only, published in WSP 1723), October 1960 to current year. Gage, float gage, indicator and staff gage at dam. Datum of gage is 547.5 ft above mean sea level (levels by Duke Power Co.).

Lake, used for hydroelectric power development, was first put in operation Dec. 16, 1923. Total capacity is 2,495,988,000 cu ft. Prior to October 1964 usable capacity was considered 1,132,000,000 cu ft between elevations (gage datum) 90.0 ft and 100.0 ft (crest of spillway) October 1964 to present considered as 845,000,000 cu ft between elevations (gage datum), 93.0 ft and 100.0 ft (crest of spillway). Records furnished by Duke Power Co.

OTHER RESERVOIRS.--The following smaller reservoirs in the South Atlantic Slope basins are described below, but records of contents are not published herein:

02087339 LAKE JOHNSON.--Lat 35°45'44", long 78°42'17", Wake County, part of Raleigh's municipal water supply, on Walnut Creek near Raleigh. Drainage area, 7.05 sq mi. Total capacity is 98,900,000 cu ft. Dam was completed in 1923 and spillway raised to its present elevation in 1951. (See sta 02087500)

02087344 LAKE RALEIGH.--Lat 35°45'56", long 78°40'38", Wake County, part of Raleigh's municipal water supply, on Walnut Creek near Raleigh. Drainage area, 12.3 sq mi. Total capacity is 13,400,000 cu ft. Dam completed in 1914 and raised to its present elevation in 1919. (See sta 02087500)

02087588 LAKE WHEELER.--Lat 35°41'30", long 78°41'31", Wake County, part of Raleigh's municipal water supply, on Swift Creek near Raleigh. Drainage area is 38 sq mi, approximately. Total capacity is 267,400,000 cu ft. Dam completed and storage began in 1956. (See sta 02087500)

02087701 LAKE BENSON.--Lat 35°39'44", long 78°36'42", Wake County, part of Raleigh's municipal water supply, on Swift Creek near Garner. Drainage area, 67, sq mi, approximately. Total capacity is 133,700,000 cu ft. Lake, formerly known as Rand's Mill, acquired by city of Raleigh in 1927 and spillway raised to its present elevation in 1954. (See sta 02087500)

02093981 LAKE HIGGINS.--Lat 36°10'11", long 79°52'49", Guilford County, part of Greensboro's municipal water supply, on Brush Creek near Greensboro. Drainage area, 12 sq mi, approximately. Total capacity is 107,000,000 cu ft. Reservoir first filled Mar. 1, 1957. (See sta 02094500)

02094117 LAKE BRANDT.--Lat 36°10'20", long 79°50'20", Guilford County, part of Greensboro's municipal water supply, on Reedy Fork and Horsepen Creek near Greensboro. Drainage area, 70.0 sq mi, approximately. Total capacity is 294,000,000 cu ft. Dam completed February 1923 and raised to present level 1959-60. Reservoir first filled at present level on Oct. 8, 1960. (See sta 02094500)

02094305 LAKE TOWNSEND.--Lat 36°11'25", long 79°43'57", Guilford County, part of Greensboro's municipal water supply, on Reedy Fork near Greensboro. Drainage area, 105 sq mi. Total capacity is 869,000,000 cu ft. Dam completed Oct. 18, 1968, and reservoir first filled Aug. 17, 1969. (See sta 02094500)

02096003 LAKE BURLINGTON.--Lat 36°10'25", long 79°24'53", Alamance County, part of Burlington's minicipal water supply, on Stony Creek near Burlington. Drainage area, 44 sq mi, approximately. Prior to October 1971 published as "Stony Creek Reservoir". Total capacity is 427,800,000 cu ft. Dam completed August 1960 and reservoir first filled Jan. 28, 1961. (See sta 02096500)

02096432 STONY CREEK RESERVOIR.--Lat 35°07'37", long 79°24'20", Alamance County, part of Brulington's water supply on Stony Creek near Burlington. Drainage area, 95.0 sq mi, approximately. Prior to October 1971 published as "Lake Burlington". Total capacity is 64,900,000 cu ft. Dam completed and reservoir filled in 1928. (See sta 02096500)

02099096 HIGH POINT MUNICIPAL LAKE.--Lat 35°59'43", long 79°56'42", Guilford County, High Point's municipal water supply, on Deep River near High Point. Drainage area, 61.4 sq mi. Total capacity is 220,588,000 cu ft. Dam completed in 1926 and reservoir first filled in 1927. (See sta 02099500)

02102178 BUCKHORN RESERVOIR.--Lat 35°31'35", long 78°59'22", Chatham County, on Cape Fear River near Corinth. Drainage area, 3,200 sq mi, approximately. Usable capacity is 69,700,000 cu ft. Completed and filled in 1908. Hydroelectric power operation stopped Dec. 31, 1962.

02121461 LEXINGTON-THOMASVILLE RESERVOIR.--Lat 35°51'54", long 80°11'41", Davidson County, Lexington and Thomasville's municipal water supply on Abbotts Creek near Lexington. Drainage area, 70.3 sq mi. Total capacity is 284,100,000 cu ft of which 281,400,000 cu ft is usable. Dam completed Aug. 8, 1957, and reservoir first filled Nov. 23, 1957.

02184122 LAKE TOXAWAY.--Lat 35°07'27", long 82°55'56", Translyvania County, recreation lake on Toxaway River at town of Lake Toxaway. Drainage area, 7.79 sq mi. Total surface area, about 640 acres. Lake reached spillway elevation September 1961.

Lakes and Reservoirs in South Atlantic Slope basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Date	Elevation (feet)	Combined contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
	02067800 Talbott & Townes Reservoirs			02077280 Hyco Lake			02079964 Lake Gaston			02080100 Roanoke Rapids Lake		
Sept. 30		359.2	-	10.33	3,345	-	199.75	19,384	-	131.9	3,338	-
Oct. 31		398.2	+39.0	10.65	3,394	+49	200.84	20,334	+950	130.4	3,044	-294
Nov. 30		364.4	-33.8	10.75	3,410	+16	200.26	19,828	-506	131.6	3,274	+230
Dec. 31		359.2	-5.2	10.53	3,375	-35	199.91	19,523	-305	132.2	3,403	+129
CAL YR 1971		-	+9.1	-	-	-3	-	-	+9	-	-	+129
Jan. 31		356.6	-2.6	10.52	3,373	-2	199.60	19,254	-269	130.5	3,062	-341
Feb. 29		363.4	+6.8	10.65	3,394	+21	199.33	19,018	-236	128.2	2,663	-399
Mar. 31		365.7	+2.3	10.60	3,386	-8	199.20	18,905	-113	128.7	2,744	+81
Apr. 30		359.2	-6.5	10.53	3,375	-11	199.79	19,420	+515	129.3	2,844	+100
May 31		359.2	0	10.54	3,376	+1	198.59	18,356	-1,064	130.8	3,122	+278
June 30		378.7	+19.5	10.51	3,372	-4	201.71	21,123	+2,767	131.4	3,234	+112
July 31		364.4	-14.3	10.23	3,329	-43	200.81	20,307	-816	131.6	3,274	+40
Aug. 31		339.7	-24.7	9.79	3,258	-71	200.13	19,715	-592	127.2	2,496	-778
Sept. 30		339.7	0	9.93	3,282	+24	199.90	19,514	-201	128.7	2,744	+248
WTR YR 1972		-	-19.5	-	-	-63	-	-	+130	-	-	-3

Date	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Elevation	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
	02086490 Lake Michie			02111391 W. Kerr Scott Reservoir			02122400 High Rock Lake			02122699 Tuckertown Reservoir		
Sept. 30	339.99	596	-	1030.6	1,838	-	652.41	9,456	-	595.38	1,788	-
Oct. 31	341.31	625	+29	1033.3	2,027	+189	654.89	11,018	+1,562	595.42	1,792	+4
Nov. 30	341.40	627	+2	1033.1	2,012	-15	649.45	7,774	-3,244	595.49	1,800	+8
Dec. 31	341.15	622	-5	1032.9	1,997	-15	648.08	7,110	-662	595.45	1,795	-5
CAL YR 1971	-	-	0	-	-	+211	-	-	+860	-	-	+15
Jan. 31	341.07	620	-2	1030.0	1,786	-211	649.95	8,094	+984	595.26	1,776	-19
Feb. 29	341.23	623	+3	1031.2	1,886	+100	648.35	7,262	-832	595.23	1,773	-3
Mar. 31	341.28	625	+2	1033.2	2,020	+134	649.16	7,669	+407	595.14	1,763	-10
Apr. 30	341.13	621	-4	1033.0	2,004	-16	651.34	8,813	+1,144	595.32	1,782	+19
May 31	341.00	618	-3	1033.0	2,004	0	652.86	9,759	+946	595.38	1,788	+6
June 30	341.17	622	+4	1033.1	2,012	+8	654.72	10,879	+1,120	595.28	1,778	-10
July 31	340.21	601	-21	1033.05	2,008	-4	652.58	9,577	-1,302	595.31	1,781	+3
Aug. 31	335.95	516	-85	1031.25	1,890	-118	650.97	8,644	-933	595.40	1,790	+9
Sept. 30	340.28	602	+86	1029.25	1,737	-153	649.08	7,616	-1,028	595.22	1,772	-18
WTR YR 1972	-	-	+6	-	-	-101	-	-	-1,840	-	-	-16

Lakes and Reservoirs in South Atlantic Slope basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Date	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
	02122844 Badin Lake			02123736 Lake Tillery			02128800 Blewett Falls Lake			02138519 Lake James		
Sept. 30	539.26	10,077	-	238.8	5,772	-	135.8	1,520	-	89.6	9,886	-
Oct. 31	540.99	10,474	+397	239.4	5,903	+131	135.9	1,530	+10	96.7	11,673	+1,787
Nov. 30	538.64	9,914	-560	239.0	5,815	-88	139.6	1,910	+380	93.9	10,941	-732
Dec. 31	539.54	10,124	+210	238.9	5,794	-21	135.5	1,490	-420	90.1	10,005	-936
CAL YR 1971	-	-	-117	-	-	-109	-	-	-213	-	-	-460
Jan. 31	539.91	10,217	+93	239.1	5,837	+43	139.0	1,850	+360	92.7	10,638	+633
Feb. 29	539.17	10,054	-163	239.0	5,815	-22	138.3	1,776	-74	89.6	9,886	-752
Mar. 31	539.06	10,031	-23	239.4	5,903	+88	140.1	1,960	+184	89.9	9,957	+71
Apr. 30	539.40	10,101	+70	239.3	5,881	-22	137.8	1,724	-236	93.3	10,789	+832
May 31	540.26	10,311	+211	239.2	5,859	-22	140.6	2,010	+286	98.8	12,246	+1,457
June 30	540.51	10,357	+46	238.8	5,772	-87	138.5	1,798	-212	98.9	12,274	+28
July 31	538.65	9,914	-443	239.3	5,881	+109	136.4	1,580	-218	98.3	12,108	-166
Aug. 31	538.87	9,984	+70	239.3	5,881	0	136.7	1,610	+30	94.6	11,121	-987
Sept. 30	539.80	10,194	+210	239.2	5,859	-22	135.5	1,490	-120	89.8	9,933	-1,188
WTR YR 1972	-	-	+117	-	-	+87	-	-	-30	-	-	+47

	02141490 Rhodhiss Lake			02141961 Lake Hickory			02142441 Lookout Shoals Lake			02142647 Lake Norman		
Sept. 30	96.0	1,150	-	95.8	1,559	-	98.1	126	-	97.3	43,880	-
Oct. 31	98.7	1,523	+373	97.9	1,910	+351	97.5	100	-26	98.4	45,370	+1,490
Nov. 30	97.2	1,311	-212	97.1	1,775	-135	98.3	138	+38	97.1	43,600	-1,770
Dec. 31	97.9	1,409	+98	98.1	1,944	+169	97.8	113	-25	98.0	44,820	+1,220
CAL YR 1971	-	-	+233	-	-	+236	-	-	-30	-	-	+4,190
Jan. 31	97.1	1,298	-111	97.0	1,758	+186	97.8	113	0	98.1	44,960	+140
Feb. 29	97.9	1,409	+111	96.3	1,641	-117	97.6	105	-8	96.2	42,420	-2,540
Mar. 31	96.7	1,243	-166	96.3	1,641	0	98.2	130	+25	96.5	42,820	+400
Apr. 30	98.0	1,423	+180	96.7	1,708	+67	98.2	130	0	97.8	44,550	+1,730
May 31	96.9	1,270	-153	98.1	1,944	+236	97.7	109	-21	99.2	46,470	+1,920
June 30	97.9	1,409	+139	98.9	2,083	+139	97.6	105	-4	99.6	47,030	+560
July 31	97.0	1,284	-125	96.7	1,708	+375	97.5	100	-5	99.0	46,190	-840
Aug. 31	97.1	1,298	+14	96.0	1,592	-116	97.4	93.6	-6	97.3	43,880	-2,310
Sept. 30	97.5	1,353	+55	96.7	1,708	+116	97.5	100	+6	95.1	41,010	-2,870
WTR YR 1972	-	-	+203	-	-	+149	-	-	+26	-	-	-2,870

	02142676 Mountain Island Lake		
Sept. 30	95.8	307	-
Oct. 31	95.6	284	-23
Nov. 30	95.7	296	+12
Dec. 31	95.7	296	0
CAL YR 1971	-	-	+12
Jan. 31	95.7	296	0
Feb. 29	95.9	318	+22
Mar. 31	95.8	307	-11
Apr. 30	95.7	296	-11
May 31	95.8	307	+11
June 30	96.7	414	+107
July 31	95.9	318	-96
Aug. 31	95.8	307	-11
Sept. 30	96.0	330	+23
WTR YR 1972			+23

KANAWHA RIVER BASIN

03161000 South Fork New River near Jefferson, N. C.

LOCATION.--Lat 36°23'40", long 81°24'27", Ashe County, on right bank 600 ft upstream from bridge on State Highways 16 and 88, 0.2 mile downstream from Bear Creek, and 4 miles southeast of Jefferson.

DRAINAGE AREA.--207 sq mi.

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 2,657.04 ft above mean sea level, unadjusted. Prior to Oct. 14, 1934, nonrecording gage on bridge 400 ft downstream at same datum. Oct. 14, 1934 to Mar. 25, 1935, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--48 years, 412 cfs (27.03 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,010 cfs June 21 (gage height, 8.27 ft); minimum, 181 cfs Sept. 22, 23, 27 (gage height, 2.02 ft).
Period of record: Maximum discharge, 52,800 cfs Aug. 14, 1940 (gage height, 22.50 ft) from rating curve extended above 5,100 cfs on basis of slope-area measurement of peak flow; minimum, 52 cfs Dec. 24, 1943, result of freezeup; minimum daily, 65 cfs Sept. 9, 1925.
Flood of July 15, 1916 reached a stage of 18.0 ft, from floodmarks, witnessed by local resident (discharge, 35,200 cfs).

REMARKS.--Records good. Slight diurnal fluctuation at low flow in the growing season. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1275: 1925-26(M), 1928-30(M), 1931-32, 1933-35(M), 1941-42(m), 1944(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	307	871	470	372	349	564	555	390	494	545	461	230
2	322	1,060	409	340	494	545	550	386	445	511	444	227
3	330	1,380	404	399	444	841	555	1,270	424	553	349	224
4	330	1,230	414	433	551	666	514	1,140	410	479	351	224
5	289	947	419	556	438	588	495	760	397	544	326	488
6	315	772	535	475	430	528	462	628	387	528	319	650
7	303	705	1,300	419	468	499	474	565	406	454	319	330
8	270	634	1,280	390	390	483	791	557	476	436	355	275
9	261	541	817	395	380	454	637	645	365	421	311	258
10	337	568	674	529	340	432	544	545	358	419	289	239
11	302	535	606	600	351	418	509	493	354	427	293	230
12	279	502	546	628	376	407	788	472	349	410	300	214
13	266	486	529	578	865	394	838	473	333	415	289	208
14	262	465	486	735	656	395	640	1,120	333	400	272	202
15	259	454	475	622	545	392	579	1,030	327	396	268	199
16	374	438	470	497	518	412	529	773	415	451	265	196
17	382	423	444	340	497	519	495	666	433	739	268	193
18	303	414	423	490	461	451	459	608	488	638	275	202
19	286	404	395	535	470	412	438	661	419	647	296	202
20	322	399	438	496	286	391	429	690	1,700	504	293	190
21	531	390	454	491	359	392	480	723	5,800	450	286	187
22	1,370	381	414	491	650	903	701	727	2,540	411	258	191
23	1,990	368	390	529	717	677	700	897	1,240	408	265	181
24	3,430	409	385	475	588	539	543	808	928	378	258	187
25	1,670	414	381	449	619	498	491	668	784	366	252	190
26	1,040	390	372	423	800	487	460	599	703	367	252	187
27	837	395	366	414	999	486	436	549	649	358	272	184
28	714	433	359	454	726	503	422	520	615	381	282	199
29	636	491	359	497	626	503	413	498	623	466	252	423
30	586	595	359	444	------	513	402	518	570	525	239	444
31	628	------	414	419	------	507	------	591	------	596	233	------
TOTAL	19,577	17,523	15,798	14,945	15,335	15,804	16,432	20,990	23,657	14,567	9,242	7,544
MEAN	632	584	510	482	529	510	548	677	789	470	298	251
MAX	3,430	1,380	1,300	735	999	903	838	1,270	5,800	739	461	650
MIN	259	368	359	340	286	391	402	386	327	358	233	181
CFSM	3.05	2.82	2.46	2.33	2.56	2.46	2.65	3.27	3.81	2.27	1.44	1.21
IN.	3.52	3.15	2.84	2.69	2.76	2.84	2.95	3.77	4.25	2.62	1.66	1.36

CAL YR 1971 TOTAL 171,386 MEAN 470 MAX 3,430 MIN 177 CFSM 2.27 IN 30.80
WTR YR 1972 TOTAL 191,414 MEAN 523 MAX 5,800 MIN 181 CFSM 2.53 IN 34.40

PEAK DISCHARGE (BASE, 2,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-24	0430	6.35	3,870	6-21	1000	8.27	7,010

03439000 French Broad River at Rosman, N. C.

LOCATION.--Lat 35°08'32", long 82°49'28", Transylvania County, on left bank at upstream side of bridge on U. S. Highway 178 at Rosman, 1.0 mile upstream from East Fork, and at mile 216.4.

DRAINAGE AREA.--67.9 sq mi.

PERIOD OF RECORD.--May 1907 to June 1909, October 1935 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,173.83 ft above mean sea level. Prior to June 30, 1909, nonrecording gage at site 500 ft downstream at different datum. Jan. 1, 1936, to July 6, 1937, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--38 years (1907-8, 1935-72), 233 cfs (46.60 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,280 cfs May 3 (gage height, 10.01 ft); minimum, 82 cfs Sept. 15, 16, 17 (gage height, 1.81 ft).
Period of record: Maximum discharge, 13,500 cfs Oct. 4, 1964 (gage height, 14.95 ft); minimum, 23 cfs Jan. 3, 1940 (gage height, 1.51 ft), result of freezeup; minimum daily, 37 cfs Sept. 25-28, Oct. 5, 6, 25, 26, 1954.
Flood of July 1916 reached a stage of 13.9 ft, from floodmarks.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 1306: 1908(M). WSP 1910: 1936(M), 1938(M), 1939-40, 1942-43.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	1,080	210	245	233	202	252	143	257	221	192	107
2	116	868	200	269	237	222	236	140	240	209	175	105
3	114	609	240	248	274	231	224	1,260	229	201	159	102
4	113	461	232	450	248	205	220	466	221	209	151	102
5	109	383	323	376	230	198	207	344	215	243	220	120
6	109	340	1,460	312	234	189	200	298	209	201	243	110
7	104	315	2,250	285	236	184	196	277	207	188	178	105
8	102	288	975	269	220	220	244	370	196	182	190	102
9	113	273	688	303	215	194	200	328	190	177	158	101
10	112	260	606	510	209	187	193	286	188	174	167	95
11	104	246	548	639	207	182	227	266	179	166	173	94
12	102	236	471	478	253	177	215	254	177	152	165	93
13	99	227	428	612	378	175	203	380	174	154	157	92
14	99	219	391	619	272	171	193	1,050	169	157	157	89
15	254	212	433	478	253	167	185	529	163	206	145	87
16	319	207	406	406	241	223	183	422	163	189	138	85
17	169	201	381	372	245	200	173	370	169	181	137	93
18	146	195	349	348	246	182	169	344	212	169	131	102
19	135	194	331	333	233	176	166	341	182	188	126	92
20	139	189	403	317	218	170	163	344	1,010	204	123	87
21	243	182	360	313	218	185	162	328	714	162	124	86
22	864	178	328	322	222	422	199	319	367	152	119	85
23	467	175	312	309	218	246	172	310	295	174	123	85
24	343	273	303	290	216	221	163	289	260	169	122	95
25	304	231	290	275	215	221	157	272	240	171	128	87
26	256	206	280	266	230	214	153	260	223	167	147	91
27	230	206	272	260	216	245	149	249	243	158	147	110
28	212	197	266	256	206	251	146	243	328	151	121	102
29	199	269	258	250	198	303	145	243	289	216	114	100
30	190	231	261	249	------	272	144	364	243	205	109	344
31	348	------	255	237	------	268	------	292	------	193	107	------
TOTAL	6,333	9,151	14,510	10,896	6,821	6,703	5,639	11,381	7,952	5,689	4,646	3,148
MEAN	204	305	468	351	235	216	188	367	265	184	150	105
MAX	864	1,080	2,250	639	378	422	252	1,260	1,010	243	243	344
MIN	99	175	200	237	198	167	144	140	163	151	107	85
CFSM	3.00	4.49	6.89	5.17	3.46	3.18	2.77	5.41	3.90	2.71	2.21	1.55
IN.	3.47	5.01	7.95	5.97	3.74	3.67	3.09	6.24	4.36	3.12	2.55	1.72

CAL YR 1971 TOTAL 88,611 MEAN 243 MAX 2,250 MIN 99 CFSM 3.58 IN 48.55
WTR YR 1972 TOTAL 92,869 MEAN 254 MAX 2,250 MIN 85 CFSM 3.74 IN 50.88

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0830	9.58	3,880	6-20	2215	6.79	2,130
5-3	0445	10.01	4,280				

03441000 Davidson River near Brevard, N. C.

LOCATION.--Lat 35°16'23", long 82°42'21", Transylvania County, on right bank 150 ft upstream from bridge on State Highway 280, 2.1 miles downstream from Avery Creek, 3.3 miles northeast of Brevard, and at mile 2.2.

DRAINAGE AREA.--40.4 sq mi.

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,115.13 ft above mean sea level (levels by Tennessee Valley Authority). Prior to May 17, 1934, nonrecording gage, at site 50 ft downstream at same datum.

AVERAGE DISCHARGE.--52 years, 127 cfs (42.69 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,640 cfs May 3 (gage height, 5.85 ft); minimum, 34 cfs Oct. 14, 15; minimum gage height, 0.51 ft Sept. 21, 22, 23, 26.
Period of record: Maximum discharge, 8,400 cfs Aug. 15, 1928 (gage height, 11.8 ft); minimum, 13 cfs Oct. 11, 1954 (gage height, 0.31 ft).
Studies by Tennessee Valley Authority indicate the flood of June 1876 is the highest known, since at least 1869.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 1336: 1921, 1922(M), 1923, 1924-25(M), 1926, 1927(M), 1929-32(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	458	96	113	122	106	156	90	141	134	98	52
2	41	441	80	131	126	117	144	88	131	129	81	51
3	40	299	90	117	161	126	134	812	124	122	76	49
4	40	211	106	266	136	111	131	340	117	126	72	49
5	40	172	152	211	124	106	122	241	113	131	79	67
6	40	150	824	167	126	100	117	199	146	113	94	55
7	37	137	1,270	151	126	98	117	177	131	109	77	51
8	36	119	548	139	117	122	156	241	113	104	76	49
9	42	110	370	172	115	102	122	211	108	102	68	47
10	43	104	324	324	111	100	117	180	102	98	152	45
11	37	97	282	388	109	96	129	164	98	94	122	44
12	36	92	238	288	134	96	180	151	94	90	91	43
13	35	87	214	409	107	94	149	235	98	105	84	42
14	35	83	194	433	149	92	134	622	94	97	77	41
15	110	81	202	311	136	98	124	327	90	94	72	40
16	168	78	188	254	129	119	119	260	122	90	69	40
17	67	76	174	226	134	106	113	223	109	91	68	46
18	57	73	159	209	134	96	109	209	180	88	64	48
19	53	72	151	197	124	92	106	229	126	86	61	43
20	54	71	209	185	119	90	104	229	1,050	86	60	39
21	171	67	177	185	115	104	106	197	727	78	60	39
22	693	65	159	185	119	288	136	185	340	76	58	38
23	314	64	149	177	117	154	113	185	254	95	61	38
24	200	107	144	164	117	134	106	169	211	99	65	42
25	150	89	136	154	117	131	102	156	185	90	69	39
26	120	81	131	146	122	129	98	146	169	83	73	41
27	103	83	126	141	113	151	96	139	159	78	69	49
28	93	78	122	139	109	144	94	134	202	76	59	45
29	85	122	117	134	104	183	92	139	174	111	56	46
30	80	98	122	134	------	167	92	211	146	94	53	216
31	192	------	117	126	------	169	------	164	------	93	52	------
TOTAL	3,255	3,865	7,369	6,375	3,660	3,911	3,617	7,052	5,853	3,061	2,316	1,533
MEAN	105	129	238	206	126	123	121	227	195	98.7	74.7	51.1
MAX	693	458	1,270	433	197	288	180	812	1,050	134	152	216
MIN	35	64	80	113	104	88	92	88	90	76	52	38
CFSM	2.60	3.19	5.89	5.10	3.12	3.04	3.00	5.62	4.83	2.44	1.85	1.26
IN.	3.00	3.56	6.79	5.87	3.37	3.51	3.33	6.49	5.39	2.82	2.13	1.41

CAL YR 1971 TOTAL 44,620 MEAN 122 MAX 1,270 MIN 35 CFSM 3.02 IN 41.09
WTR YR 1972 TOTAL 51,767 MEAN 141 MAX 1,270 MIN 35 CFSM 3.49 IN 47.67

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-22	0730	3.52	1,090	5-14	0215	3.60	1,130
12- 7	0830	5.16	2,130	6-20	2145	5.62	2,460
5- 3	0430	5.85	2,640				

03441440 Little River above High Falls, near Cedar Mountain, N. C.

LOCATION.--Lat 35°11'32", long 82°36'49", Transylvania County, on left bank 100 ft upstream from High Falls, 0.2 mile upstream from Grassy Creek, 1.0 mile downstream from Reasonover Creek, 3.8 miles northeast of Cedar Mountain, and at mile 7.8.

DRAINAGE AREA.--26.8 sq mi.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,513.27 ft above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--10 years, 103 cfs (52.19 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,660 cfs Dec. 7 (gage height, 4.30 ft); minimum, 20 cfs Sept. 23 (gage height, 1.30 ft).
Period of record: Maximum discharge, 5,600 cfs Oct. 4, 1964 (gage height, 7.30 ft); minimum, 13 cfs Oct. 7, 1970 (gage height, 1.23 ft).

REMARKS.--Records good. E. I. du Pont de Nemours and Company plant 0.5 mile above gage diverted about 0.71 cfs for industrial use. Since 1969, more than 7.82 square miles of total drainage affected by occasional filling and/or draining of recreational lakes on tributaries upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	347	116	91	8[illegible]	68	98	54	93	81	88	28
2	51	470	103	97	81	77	90	53	79	81	68	27
3	48	355	116	91	96	89	84	106	74	80	60	26
4	48	258	128	161	90	74	80	87	69	93	56	27
5	48	214	130	169	80	70	76	69	64	143	55	32
6	52	184	421	130	80	65	73	62	70	99	57	32
7	45	170	1,250	116	82	65	71	59	79	83	55	29
8	43	150	632	104	75	80	88	98	61	77	53	27
9	62	141	328	111	72	69	72	106	58	71	55	27
10	66	133	272	193	69	65	66	78	58	68	67	26
11	51	124	253	252	69	64	80	70	58	63	49	24
12	47	118	213	201	90	63	94	67	52	59	69	24
13	45	112	190	257	191	61	85	104	51	59	64	23
14	44	106	175	301	134	62	77	612	49	59	61	23
15	64	102	180	193	113	59	72	293	46	55	53	22
16	263	98	185	158	102	80	69	189	45	55	51	22
17	133	92	165	142	99	78	66	157	46	61	49	23
18	102	85	150	136	98	67	63	136	66	66	47	30
19	86	81	141	130	93	65	62	143	58	90	44	28
20	80	80	167	123	82	61	61	161	548	149	43	24
21	117	75	155	121	80	66	58	146	815	80	42	23
22	849	72	141	123	94	214	82	131	257	68	40	22
23	513	69	131	122	86	125	81	127	177	65	38	21
24	286	111	127	110	83	100	67	123	139	65	37	22
25	215	101	122	103	79	92	62	106	118	98	36	21
26	172	91	118	97	80	87	59	96	111	103	41	22
27	146	97	110	94	75	86	57	87	99	75	40	34
28	128	95	105	95	71	88	56	83	122	67	35	32
29	116	152	100	91	69	108	55	86	124	69	32	41
30	108	140	100	90	------	100	55	119	93	66	30	85
31	274	------	96	84	------	98	------	127	------	69	29	------
TOTAL	4,356	4,423	6,620	4,286	2,593	2,546	2,161	3,935	3,779	2,417	1,604	847
MEAN	141	147	214	138	89.4	82.1	72.0	127	126	78.0	51.7	28.2
MAX	849	470	1,250	301	191	214	98	612	815	149	99	85
MIN	43	69	96	84	69	59	55	53	45	55	29	21
CFSM	5.26	5.49	7.99	5.15	3.34	3.06	2.69	4.74	4.70	2.91	1.93	1.05
IN.	6.05	6.14	9.19	5.95	3.60	3.53	3.00	5.46	5.25	3.35	2.23	1.18

CAL YR 1971 TOTAL 41,406 MEAN 113 MAX 1,250 MIN 35 CFSM 4.22 IN 57.47
WTR YR 1972 TOTAL 39,567 MEAN 108 MAX 1,250 MIN 21 CFSM 4.03 IN 54.92

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-22	1445	3.74	1,200	5-14	0615	3.22	814
12- 7	1530	4.30	1,660	6-21	0300	3.76	1,220

03443000 French Broad River at Blantyre, N. C.

LOCATION.--Lat 35°17'56", long 82°37'27", Transylvania County, on left bank 40 ft upstream from bridge on Secondary Road 1503, 700 ft east of railroad at Blantyre, 3.5 miles downstream from Little River, and at mile 183.7.

DRAINAGE AREA.--296 sq mi.

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,060.32 ft above mean sea level (levels by Tennessee Valley Authority). Prior to July 5, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--52 years, 957 cfs (43.91 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,450 cfs Dec. 8 (gage height, 19.75 ft); minimum, 271 cfs Sept. 22, 23 (gage height, 3.93 ft).
Period of record: Maximum discharge, 30,000 cfs Oct. 5, 1964 (gage height, 25.50 ft, from floodmarks); minimum, 119 cfs Oct. 11, 1954 (gage height, 2.36 ft).
Maximum stage since at least 1791, 27.1 ft July 16, 1916, from floodmarks (from studies by Tennessee Valley Authority).

REMARKS.--Records good. Considerable diurnal fluctuation at low flow caused by powerplant about 8 miles above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 923: 1921-23, 1929, 1933, 1935-36(M), 1938, 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	538	2,930	999	1,010	987	888	1,180	667	1,060	1,010	835	429
2	475	3,470	907	1,050	999	878	1,100	652	976	961	773	420
3	460	2,940	897	1,050	1,080	996	1,040	2,140	931	945	712	404
4	451	2,060	1,030	1,470	1,120	893	1,020	2,300	892	925	661	396
5	456	1,690	1,090	1,900	996	851	981	1,350	866	1,050	687	513
6	465	1,460	3,130	1,400	984	846	947	1,130	886	973	1,230	569
7	436	1,350	5,350	1,240	1,010	874	932	1,030	967	885	824	524
8	412	1,220	6,940	1,150	966	940	1,040	1,210	842	854	858	501
9	432	1,130	4,880	1,140	935	935	908	1,500	815	829	763	484
10	497	1,080	3,350	1,920	915	873	856	1,150	791	811	833	394
11	441	1,020	2,540	2,650	849	788	905	1,050	730	785	1,170	384
12	418	978	2,160	2,300	868	770	1,220	1,000	682	706	815	374
13	392	942	1,880	2,320	1,590	762	1,070	1,030	669	697	816	298
14	386	906	1,700	3,090	1,320	752	989	2,960	668	707	731	290
15	458	877	1,660	2,230	1,140	737	942	2,870	644	685	685	282
16	2,020	857	1,810	1,810	1,070	857	915	1,820	660	790	632	277
17	1,090	835	1,620	1,600	1,050	1,070	898	1,500	717	799	619	288
18	798	815	1,500	1,490	1,070	892	854	1,350	969	797	594	359
19	709	802	1,390	1,410	1,070	854	786	1,450	825	834	572	347
20	673	799	1,540	1,350	974	821	758	1,550	2,720	1,000	553	294
21	905	775	1,610	1,330	987	776	749	1,360	5,210	812	548	279
22	3,560	753	1,410	1,290	993	1,710	831	1,280	4,300	683	533	275
23	4,350	738	1,310	1,330	986	1,350	872	1,260	2,090	702	519	272
24	2,860	801	1,260	1,230	985	1,090	779	1,280	1,440	705	557	344
25	1,780	1,100	1,220	1,170	970	1,030	809	1,120	1,230	853	529	334
26	1,390	924	1,180	1,110	977	1,030	785	1,040	1,140	820	546	368
27	1,190	872	1,140	1,090	982	1,040	766	986	1,050	797	575	448
28	1,070	880	1,100	1,080	930	1,080	755	959	1,220	750	512	499
29	988	964	1,070	1,050	908	1,210	688	955	1,430	868	467	452
30	928	1,240	1,060	1,050	------	1,270	668	1,220	1,110	1,050	444	1,550
31	1,370	------	1,060	1,010	------	1,180	------	1,320	------	887	444	------
TOTAL	32,398	37,208	59,793	46,320	29,714	30,043	27,043	42,489	38,530	25,970	21,037	12,648
MEAN	1,045	1,240	1,929	1,494	1,025	969	901	1,371	1,284	838	679	422
MAX	4,350	3,470	6,940	3,090	1,590	1,710	1,220	2,960	5,210	1,050	1,230	1,550
MIN	386	738	897	1,010	849	737	668	652	644	683	444	272
CFSM	3.53	4.19	6.52	5.05	3.46	3.27	3.04	4.63	4.34	2.83	2.29	1.43
IN.	4.07	4.68	7.51	5.82	3.73	3.78	3.40	5.34	4.84	3.26	2.64	1.59

CAL YR 1971 TOTAL 389,406 MEAN 1,067 MAX 6,940 MIN 367 CFSM 3.60 IN 48.94
WTR YR 1972 TOTAL 403,193 MEAN 1,102 MAX 6,940 MIN 272 CFSM 3.72 IN 50.67

PEAK DISCHARGE (BASE, 4,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	0730	16.88	4,430	6-21	1430	18.24	5,520
12- 8	1230	19.75	7,450				

03444500 South Fork Mills River at The Pink Beds, N. C.

LOCATION.--Lat 35°21'58", long 82°44'22", Transylvania County, in Pisgah National Forest, on left bank on Forest Service Road 476, at The Pink Beds, 400 ft downstream from Thompson Creek, 9 miles north of Brevard, and at mile 22.1.

DRAINAGE AREA.--9.99 sq mi.

PERIOD OF RECORD.--October 1925 to September 1949, June 1965 to current year. Occasional low-flow measurements, water years 1950, 1953-55, 1960, 1962-64. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 3,138.38 ft above mean sea level. Prior to Mar. 31, 1926, nonrecording gage at site 300 ft upstream at present datum.

AVERAGE DISCHARGE.--31 years, 31.3 cfs (42.55 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,020 cfs June 20 (gage height, 5.57 ft); minimum daily, 7.0 cfs Sept. 22.
Period of record: Maximum discharge, 2,220 cfs Aug. 15, 1928 (gage height, 8.0 ft), from rating curve extended above 900 cfs on basis of slope-area and contracted-opening measurements at gage height 7.42 ft; minimum, 1.6 cfs Sept. 3, 1930.

REMARKS.--Records good. Recording rain gage located at station.

REVISIONS.--WSP 823: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	117	25	27	30	26	39	21	34	33	37	10
2	10	112	24	32	30	30	36	21	32	32	23	9.3
3	9.8	86	29	28	31	30	33	167	30	30	19	9.2
4	9.8	64	33	68	35	26	32	68	28	29	17	12
5	9.5	54	38	48	33	25	29	51	27	29	16	16
6	8.6	48	179	40	30	24	28	44	33	26	15	11
7	7.7	43	387	36	30	23	30	40	29	25	18	10
8	7.7	38	161	33	28	27	40	58	25	23	22	10
9	11	36	111	42	26	23	30	49	24	23	18	9.0
10	9.7	33	99	64	24	22	28	42	23	22	20	8.5
11	8.4	31	80	73	24	21	32	39	21	20	25	8.0
12	8.4	29	67	57	33	21	62	36	20	19	20	8.2
13	8.3	28	59	90	43	20	46	67	20	20	18	8.0
14	8.2	27	54	90	33	20	39	155	19	20	16	7.9
15	33	25	55	66	31	19	36	80	18	19	15	7.7
16	50	24	50	55	29	25	33	63	21	19	14	7.7
17	19	24	47	50	30	22	30	55	21	20	14	11
18	15	23	42	47	30	20	29	49	37	26	13	9.5
19	14	22	41	43	27	19	28	53	33	22	12	8.5
20	17	21	54	41	26	19	27	55	423	18	13	8.0
21	63	20	45	40	27	35	27	48	269	16	12	7.2
22	209	20	41	41	29	82	38	45	105	15	11	7.0
23	105	19	38	41	28	40	30	46	75	18	12	7.2
24	74	34	37	40	27	34	27	41	61	17	17	7.5
25	54	26	35	37	27	33	26	38	52	22	16	7.5
26	43	23	34	35	30	32	24	35	46	20	18	7.5
27	36	24	32	34	27	35	23	34	43	15	21	8.0
28	32	23	31	33	26	33	23	32	49	15	15	9.0
29	29	38	29	34	25	44	22	33	43	18	12	10
30	27	29	30	32	------	40	22	49	37	17	11	27
31	81	------	28	31	------	41	------	39	------	66	11	------
TOTAL	1,028.1	1,141	2,015	1,428	849	911	949	1,653	1,698	714	521	287.4
MEAN	33.2	38.0	65.0	46.1	29.3	29.4	31.6	53.3	56.6	23.0	16.8	9.58
MAX	209	117	387	90	43	82	62	167	423	66	37	27
MIN	7.7	19	24	27	24	19	22	21	18	15	11	7.0
CFSM	3.32	3.80	6.51	4.61	2.93	2.94	3.16	5.34	5.67	2.30	1.68	.96
IN.	3.83	4.25	7.50	5.32	3.16	3.39	3.53	6.16	6.32	2.66	1.94	1.07

CAL YR 1971 TOTAL 12,581.9 MEAN 34.5 MAX 387 MIN 7.7 CFSM 3.45 IN 46.85
WTR YR 1972 TOTAL 13,194.5 MEAN 36.1 MAX 423 MIN 7.0 CFSM 3.61 IN 49.13

PEAK DISCHARGE (BASE, 340 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-22	0630	4.06	343	6-20	2130	5.57	1,020
12- 7	0730	4.78	626	7-31	1830	4.16	377
5- 3	0400	4.22	399				

03446000 Mills River near Mills River, N. C.

LOCATION.--Lat 35°23'56", long 82°35'46", Henderson County, on right bank 1.5 miles downstream from confluenc of North and South Forks, 1.8 miles northwest of Mills River, 4.2 miles northwest of Horseshoe, and at mil 4.6.

DRAINAGE AREA.--66.7 sq mi.

PERIOD OF RECORD.--September 1924 to September 1926, October 1933 to current year. Monthly discharge only fo: some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,088.47 ft above mean sea level (levels by Tennessee Valley Authority). Prior to Oct. 1, 1926, nonrecording gage at site 500 ft upstream at datum 2.97 ft higher.

AVERAGE DISCHARGE.--41 years, 162 cfs (32.98 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 4,150 cfs June 21 (gage height, 9.62 ft); minimum, 44 cfs Sept. 22, 23 (gage height, 1.65 ft); minimum daily, 45 cfs Sept. 23.
Period of record: Maximum discharge, 13,400 cfs Aug. 30, 1940 (gage height, 13.62 ft), from rating curve extended above 6,200 cfs on basis of slope-area measurement of peak flow; minimum, 16 cfs Dec. 24, 1943 (gage height, 1.33 ft), result of freezeup; minimum daily, 18 cfs Sept. 30, 1954.
The greatest flood since 1876 is probably that of Aug. 30, 1940.

REMARKS.--Records good. City of Hendersonville diverted an average of 5.24 cfs from North Fork and Bradley Creek for municipal water supply.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 923: 1935, 1937, 1939. WSP 1003: 1938, 1940-42. WSP 1143: 1940(P). WSP 1276: 1926.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	474	157	170	167	148	201	128	187	197	205	62
2	70	532	149	184	172	158	189	126	177	190	122	61
3	69	431	161	172	200	172	179	484	169	181	109	58
4	67	343	173	270	188	152	173	342	161	181	99	62
5	84	296	186	245	169	148	165	256	155	184	95	94
6	78	266	632	212	169	142	160	220	164	167	96	76
7	66	246	1,630	197	167	141	159	200	182	158	97	64
8	63	224	806	186	157	149	194	247	151	152	121	60
9	71	211	555	195	154	137	161	242	144	147	93	58
10	78	200	473	280	151	134	155	209	140	142	114	54
11	67	189	406	338	149	131	166	195	134	137	141	52
12	64	181	351	293	162	130	246	184	130	132	110	51
13	62	174	318	358	239	128	227	225	127	132	99	50
14	61	167	294	453	188	127	201	668	125	132	91	49
15	114	162	292	340	177	124	187	410	121	127	89	48
16	340	158	274	287	171	148	177	322	124	127	84	47
17	140	153	261	265	174	143	166	282	133	129	85	61
18	114	149	242	247	176	130	160	254	183	138	78	63
19	103	145	233	236	168	126	157	263	155	143	75	53
20	103	143	263	227	158	123	152	291	1,260	123	79	48
21	219	137	240	223	158	128	154	261	1,620	115	74	47
22	945	131	224	230	163	300	182	249	548	114	71	46
23	610	130	214	226	160	192	164	255	402	109	71	45
24	471	177	210	210	159	169	152	238	328	109	73	48
25	336	169	203	200	157	169	145	217	288	104	97	47
26	266	148	198	190	165	163	141	204	260	139	96	47
27	228	152	190	186	158	174	136	193	240	110	95	74
28	203	147	186	188	152	171	134	188	267	106	90	65
29	184	193	181	180	150	199	132	189	248	121	74	62
30	173	178	183	177	------	196	130	230	216	120	68	199
31	273	------	179	169	------	206	------	214	------	127	64	------
TOTAL	5,793	6,406	10,064	7,334	4,878	4,858	5,045	7,986	8,539	4,293	2,955	1,851
MEAN	187	214	325	237	168	157	168	258	285	138	95.3	61.7
MAX	945	532	1,630	453	239	300	246	668	1,620	197	205	199
MIN	61	130	149	169	149	123	130	126	121	104	64	45
CFSM	2.80	3.21	4.87	3.55	2.52	2.35	2.52	3.87	4.27	2.07	1.43	.93
IN.	3.23	3.57	5.61	4.09	2.72	2.71	2.81	4.45	4.76	2.39	1.65	1.03

CAL YR 1971 TOTAL 65,729 MEAN 180 MAX 1,630 MIN 61 CFSM 2.70 IN 36.66
WTR YR 1972 TOTAL 70,002 MEAN 191 MAX 1,630 MIN 45 CFSM 2.86 IN 39.04

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-22	1030	4.43	1,370	6-21	0015	9.62	4,150
12- 7	1100	6.43	2,440				

03448000 French Broad River at Bent Creek, N. C.

LOCATION.--Lat 35°30'07", long 82°35'35", Buncombe County, on left bank 50 ft downstream from Bent Creek, 6.2 miles upstream from Hominy Creek, 6.7 miles south of Asheville, and at mile 157.7.

DRAINAGE AREA.--676 sq mi.

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,995.91 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--39 years, 1,638 cfs (32.91 inches per year).

EXTREMES.--Current year: Maximum discharge, 13,400 cfs June 21 (gage height, 9.65 ft); minimum, 525 cfs Sept. 23 (gage height, 2.53 ft).
Period of record: Maximum discharge, 30,600 cfs Oct. 5, 1964 (gage height, 15.80 ft); minimum, 230 cfs Oct. 4, 5, 10, 11, 12, 1954 (gage height, 2.05 ft).
Maximum stage since at least 1791, 27.3 ft July 15, 1916 (from floodmarks and studies by Tennessee Valley Authority). Flood in August 1928 reached a stage of about 16.1 ft, from floodmarks.

REMARKS.--Records good. Some diurnal fluctuation at low flow caused by powerplant about 34 miles above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 823: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	899	3,850	1,600	1,700	1,490	1,430	1,920	1,120	1,760	1,640	1,480	787
2	826	5,070	1,470	1,710	1,490	1,440	1,740	1,100	1,550	1,560	1,460	756
3	795	4,880	1,470	1,740	1,650	1,540	1,610	3,580	1,500	1,580	1,280	726
4	772	3,820	1,600	2,150	1,780	1,490	1,560	4,240	1,480	1,520	1,150	723
5	816	2,710	1,770	2,980	1,540	1,430	1,520	2,590	1,470	1,600	1,100	1,010
6	914	2,290	3,980	2,370	1,500	1,360	1,490	1,950	1,480	1,580	1,380	1,070
7	801	2,080	8,490	2,080	1,520	1,370	1,480	1,690	1,780	1,490	1,400	919
8	736	1,890	10,600	1,900	1,490	1,440	1,580	1,800	1,470	1,490	1,430	852
9	745	1,740	10,500	1,850	1,480	1,480	1,490	2,410	1,380	1,440	1,270	829
10	919	1,630	7,480	2,680	1,470	1,370	1,400	1,950	1,350	1,410	1,220	774
11	835	1,540	5,220	4,180	1,410	1,300	1,410	1,680	1,290	1,370	1,620	668
12	762	1,490	3,650	3,940	1,390	1,250	1,890	1,570	1,210	1,310	1,420	706
13	721	1,450	3,090	3,670	2,280	1,220	1,960	1,570	1,170	1,230	1,250	623
14	702	1,450	2,790	4,970	2,250	1,220	1,620	3,840	1,160	1,260	1,330	578
15	794	1,440	2,670	4,040	1,860	1,200	1,530	4,560	1,130	1,200	1,200	570
16	3,710	1,430	2,730	2,940	1,690	1,280	1,480	3,410	1,130	1,340	1,080	562
17	2,450	1,430	2,610	2,500	1,630	1,560	1,480	2,470	1,760	1,390	1,030	611
18	1,490	1,410	2,410	2,310	1,670	1,430	1,450	2,150	1,750	1,360	994	750
19	1,270	1,320	2,270	2,200	1,730	1,320	1,440	2,560	1,610	1,370	960	688
20	1,160	1,280	2,290	2,100	1,560	1,270	1,290	2,990	4,650	1,530	931	614
21	1,430	1,250	2,500	2,040	1,530	1,230	1,270	2,750	11,700	1,430	920	571
22	5,050	1,200	2,250	2,000	1,530	2,550	1,360	2,400	9,620	1,290	906	543
23	6,600	1,180	2,130	2,060	1,520	2,370	1,480	2,320	6,850	1,180	887	541
24	7,080	1,370	2,060	1,920	1,520	1,740	1,320	2,370	3,250	1,180	902	568
25	4,910	1,720	1,990	1,820	1,520	1,570	1,310	2,020	2,290	1,190	1,020	619
26	2,640	1,520	1,920	1,710	1,520	1,560	1,270	1,800	2,000	1,450	986	605
27	2,090	1,460	1,860	1,650	1,520	1,570	1,240	1,650	1,810	1,500	1,030	848
28	1,800	1,450	1,800	1,630	1,490	1,600	1,210	1,580	1,880	1,400	1,090	1,070
29	1,610	1,560	1,760	1,600	1,450	1,790	1,180	1,550	2,290	1,350	878	922
30	1,520	1,920	1,740	1,560	------	1,990	1,120	1,750	1,890	1,720	818	2,640
31	1,730	------	1,760	1,520	------	1,900	------	2,060	------	1,470	789	------
TOTAL	58,577	58,830	100,460	73,520	46,480	47,270	44,100	71,480	75,660	43,830	35,211	23,743
MEAN	1,890	1,961	3,241	2,372	1,603	1,525	1,470	2,306	2,522	1,414	1,136	791
MAX	7,080	5,070	10,600	4,970	2,280	2,550	1,960	4,560	11,700	1,720	1,620	2,640
MIN	702	1,180	1,470	1,520	1,390	1,200	1,120	1,100	1,130	1,180	789	541
CFSM	2.80	2.90	4.79	3.51	2.37	2.26	2.17	3.41	3.73	2.09	1.68	1.17
IN.	3.22	3.24	5.53	4.05	2.56	2.60	2.43	3.93	4.16	2.41	1.94	1.31

CAL YR 1971 TOTAL 631,078 MEAN 1,729 MAX 10,600 MIN 671 CFSM 2.56 IN 34.73
WTR YR 1972 TOTAL 679,161 MEAN 1,856 MAX 11,700 MIN 541 CFSM 2.75 IN 37.37

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	2145	6.89	7,350	6-21	1445	9.65	13,400
12- 9	0115	8.82	11,400				

03448500 Hominy Creek at Candler, N. C.

LOCATION.--Lat 35°32'28", long 82°40'35", Buncombe County, on left bank 0.1 mile downstream from Pole Creek, 0.4 mile downstream from bridge on State Highway 112, 1.0 mile east of Candler, and at mile 10.3.

DRAINAGE AREA.--79.8 sq mi.

PERIOD OF RECORD.--October 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,065.83 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--30 years, 92.0 cfs (15.66 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,670 cfs June 21 (gage height, 8.21 ft); minimum, 30 cfs Dec. 3 (gage height, 1.02 ft), result of freezeup.
Period of record: Maximum discharge, 6,800 cfs June 16, 1949 (gage height, 13.25 ft); minimum, 13 cfs Sept. 2, 1953 (gage height, 0.80 ft).
Flood of Aug. 30, 1940, reached a stage of 18.0 ft, from floodmarks (discharge, 13,100 cfs by conveyance method). Maximum stage since at least 1840, that of Aug. 30, 1940, from studies by Tennessee Valley Authority).

REMARKS.--Records good. Numerous small diversions for irrigation above station.

REVISIONS.--WSP 1113: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	266	75	84	92	108	170	93	112	128	91	54
2	42	211	74	90	96	122	153	93	107	123	87	53
3	41	205	83	84	128	124	140	203	103	123	82	51
4	40	159	101	123	107	111	134	152	101	116	78	67
5	54	139	119	109	105	107	124	125	98	133	76	123
6	46	131	418	96	98	102	119	115	107	121	75	70
7	39	125	744	90	98	100	117	109	107	105	80	62
8	38	112	388	86	92	105	131	133	94	103	99	59
9	43	104	261	101	90	96	111	118	94	102	80	58
10	43	102	212	165	86	94	107	109	94	99	145	54
11	40	99	179	292	89	92	123	104	88	96	114	52
12	39	93	160	195	102	91	372	101	86	93	89	51
13	38	91	148	206	173	90	221	119	84	94	82	49
14	38	88	138	189	121	90	178	251	82	100	77	48
15	51	88	133	160	114	88	156	175	80	97	73	47
16	92	84	123	148	108	96	143	147	82	93	71	47
17	49	82	123	138	110	92	132	134	96	151	70	73
18	45	80	114	128	113	87	124	125	96	159	67	62
19	44	79	109	128	109	85	120	145	94	133	68	54
20	48	77	116	121	121	83	117	176	1,040	110	73	50
21	136	74	107	118	103	90	118	149	1,240	99	66	48
22	596	72	101	116	109	151	133	178	384	105	63	47
23	324	71	96	112	104	104	114	199	264	107	62	48
24	243	103	96	107	103	97	109	179	212	132	68	46
25	165	86	92	105	108	103	106	153	184	93	75	47
26	136	79	90	101	134	103	101	140	165	94	70	47
27	116	80	88	98	119	115	98	128	153	95	64	54
28	104	76	86	103	113	132	97	123	168	100	61	59
29	95	90	86	98	109	149	95	121	155	105	58	61
30	92	81	92	98	------	131	94	133	138	96	56	111
31	235	------	88	92	------	190	------	121	------	90	54	------
TOTAL	3,153	3,227	4,840	3,881	3,154	3,328	4,057	4,351	5,908	3,395	2,374	1,752
MEAN	102	108	156	125	109	107	135	140	197	110	76.6	58.4
MAX	596	266	744	292	173	190	372	251	1,240	159	145	123
MIN	38	71	74	84	86	83	94	93	80	90	54	46
CFSM	1.28	1.35	1.95	1.57	1.37	1.34	1.69	1.75	2.47	1.38	.96	.73
IN.	1.47	1.50	2.26	1.81	1.47	1.55	1.89	2.03	2.75	1.58	1.11	.82

CAL YR 1971 TOTAL 37,396 MEAN 102 MAX 744 MIN 38 CFSM 1.28 IN 17.43
WTR YR 1972 TOTAL 43,420 MEAN 119 MAX 1,240 MIN 38 CFSM 1.49 IN 20.24

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-22	0730	3.72	1,060	4-12	1045	3.71	1,050
12- 7	0845	3.81	1,110	6-21	0030	8.21	3,670

03450000 Beetree Creek near Swannanoa, N. C.

LOCATION.--Lat 35°39'11", long 82°24'20", Buncombe County, on left bank 0.5 mile downstream from Wolfe Branch, 0.8 mile upstream from Beetree Reservoir dam, 3.8 miles north of Swannanoa, and 4.8 miles above mouth.

DRAINAGE AREA.--5.46 sq mi.

PERIOD OF RECORD.--February 1926 to current year.

GAGE.--Water-stage recorder and sharp-crested weir set in masonry control. Datum of gage is 2,728.39 ft above mean sea level.

AVERAGE DISCHARGE.--46 years, 10.5 cfs (26.12 inches per year).

EXTREMES.--Current year: Maximum discharge, 421 cfs June 20 (gage height, 4.19 ft); minimum, 1.4 cfs Sept. 22, 23, 24, 25, 26 (gage height, 0.85 ft).
Period of record: Maximum discharge, 1,370 cfs Aug. 13, 1940 (gage height, 6.20 ft), from rating curve extended above 240 cfs on basis of computation of peak flow over weir; minimum, 0.3 cfs Sept. 29, 30, Oct. 1, 1954 (gage height, 0.26 ft).

REMARKS.--Records good. Recording rain gage located at station.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 893: 1928, 1936-37(M). WSP 953: 1929(M). WSP 1276: 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	46	6.5	8.0	9.1	18	23	9.5	12	10	9.2	2.6
2	2.7	47	6.4	9.2	9.2	19	23	9.3	11	9.2	12	2.5
3	2.6	43	7.4	8.8	11	20	21	26	10	8.4	9.6	2.3
4	2.4	31	7.9	12	9.9	18	21	24	9.5	10	8.2	2.5
5	2.5	21	11	12	13	16	18	19	9.0	17	7.5	4.7
6	2.7	17	35	11	10	14	17	17	8.9	11	7.1	3.1
7	2.1	14	57	10	9.5	14	16	15	8.6	9.0	7.5	2.7
8	1.9	12	37	9.9	8.8	14	19	18	7.8	8.2	7.1	2.4
9	2.9	11	27	11	8.6	13	16	18	7.5	7.5	7.6	2.3
10	2.8	10	20	19	8.4	12	15	16	7.2	7.2	7.6	2.1
11	2.3	9.6	17	46	8.3	12	15	15	6.7	6.7	7.0	2.1
12	2.0	9.0	15	35	10	11	39	14	6.3	6.3	6.5	2.0
13	1.9	8.4	14	37	14	11	39	16	6.1	5.9	5.9	1.8
14	1.8	7.9	12	43	12	11	31	34	5.9	5.6	5.5	1.9
15	2.0	7.6	12	32	13	9.7	26	29	5.5	5.4	5.6	1.8
16	3.7	7.3	12	26	13	12	21	23	5.5	5.3	4.8	1.7
17	2.3	6.9	11	25	13	12	18	19	6.5	14	4.7	2.4
18	2.2	6.7	10	22	13	11	16	17	6.5	14	4.4	2.3
19	2.1	6.5	9.7	16	11	11	15	20	7.8	12	4.2	1.9
20	3.0	6.2	10	15	11	11	14	21	94	13	4.3	1.6
21	7.8	5.8	9.7	14	12	13	14	21	123	12	3.9	1.6
22	17	5.5	9.1	14	14	31	17	21	47	18	3.8	1.6
23	31	5.4	8.7	13	14	23	14	23	34	20	3.9	1.5
24	32	8.8	8.6	12	16	19	13	20	25	14	3.5	1.6
25	18	7.5	8.3	12	23	17	13	18	20	11	3.7	1.6
26	14	6.8	8.0	11	36	16	12	16	16	9.3	3.7	1.5
27	11	6.8	7.6	11	32	19	11	14	14	8.3	3.7	2.0
28	9.7	6.5	7.5	11	26	21	11	13	14	8.9	3.2	2.0
29	8.6	7.2	7.2	10	21	23	10	12	14	11	3.0	2.4
30	7.9	6.9	8.7	9.9	------	22	9.9	14	11	9.0	2.7	7.7
31	14	------	8.4	9.3	------	23	------	14	------	8.2	2.6	------
TOTAL	219.4	395.3	429.7	535.1	409.8	496.7	547.9	565.8	560.4	315.4	172.4	70.1
MEAN	7.08	13.2	13.9	17.3	14.1	16.0	18.3	18.3	18.7	10.2	5.57	2.34
MAX	32	47	57	46	36	31	39	34	123	20	12	7.7
MIN	1.8	5.4	6.4	8.0	8.3	9.7	9.9	9.3	5.5	5.3	2.6	1.5
CFSM	1.30	2.42	2.55	3.17	2.58	2.93	3.35	3.35	3.42	1.87	1.02	.43
IN.	1.49	2.69	2.93	3.65	2.79	3.38	3.73	3.85	3.82	2.15	1.18	.48

CAL YR 1971 TOTAL 4,027.2 MEAN 11.0 MAX 57 MIN 1.8 CFSM 2.01 IN 27.44
WTR YR 1972 TOTAL 4,718.4 MEAN 12.9 MAX 123 MIN 1.5 CFSM 2.36 IN 32.15

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-20	2145	4.19	421				

03451000 Swannanoa River at Biltmore, N. C.

LOCATION.--Lat 35°34'06", long 82°32'42", Buncombe County, on left bank at Biltmore, 100 ft downstream from Biltmore Avenue Bridge, 200 ft upstream from Southern Railway Bridge, and 1.6 miles upstream from mouth.

DRAINAGE AREA.--130 sq mi.

PERIOD OF RECORD.--October 1920 to September 1926, May 1934 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,976.58 ft above mean sea level (levels by Tennessee Valley Authority). Dec. 1, 1920, to Sept. 30, 1926, nonrecording gage at site 100 ft upstream at same datum.

AVERAGE DISCHARGE.--45 years (1920-26, 1933-72), 156 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 5,720 cfs June 21 (gage height, 12.10 ft); minimum, 24 cfs Oct. 8 (gage height, 1.29 ft); minimum daily, 32 cfs Oct. 8.
Period of record: Maximum discharge, 18,400 cfs Aug. 13, 1940 (gage height, 19.00 ft), from rating curve extended above 8,400 cfs on basis of computation of peak flow over dam 3.6 miles above station; minimum, 1.1 cfs Oct. 9, 14, 15, 1941; minimum daily, 1.2 cfs Oct. 14, 1941.
Maximum stage observed, 26 ft (discharge, 40,000 cfs) in April 1791, from studies by Tennessee Valley Authority. Flood of July 1916 reached a stage of 20.7 ft (discharge, 23,000 cfs), from flood profile by Tennessee Valley Authority. Flood of Aug. 16, 1928, reached a stage of 18.74 ft, from floodmarks (discharge, 17,800 cfs). High stages are subject to backwater from French Broad River.

REMARKS.--Records good. Considerable regulation by Lake Craig 3.6 miles above station from 1925 to 1950 (reservoir silted). No diversion from Beetree Reservoir above station by city of Asheville for water supply since June 1963. City of Asheville diverted an average of 29.5 cfs for water supply from Burnett Lake on North Fork Swannanoa River 20 miles above station (see p. 186); an average of 27.6 cfs was discharged as sewage effluent into the French Broad River below station. Textile mills, the town of Black Mountain, and recreational camps diverted about 6 cfs above station, of which about half was discharged into the French Broad River below station. Complete record of diversions and return water not available.

REVISIONS (WATER YEARS).--WSP 803: 1921(M), 1923(M), 1925(M). WSP 823: Drainage area. WSP 1306: 1921(M), 1924(M), 1926(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	562	94	123	124	205	332	124	154	179	190	58
2	48	675	88	138	128	223	305	118	139	199	130	55
3	43	561	95	132	166	257	278	369	134	197	114	59
4	35	441	152	183	156	220	254	278	124	177	100	82
5	51	319	168	183	133	199	238	227	111	293	94	142
6	48	259	354	168	130	170	220	206	124	216	94	87
7	36	225	936	154	128	160	213	185	120	182	108	77
8	32	181	749	133	122	174	232	221	100	165	137	58
9	43	166	473	132	117	152	195	219	96	147	105	60
10	51	156	353	241	110	141	177	195	100	136	128	61
11	38	138	292	643	108	138	189	177	96	131	112	52
12	36	125	248	514	127	133	401	162	86	119	94	52
13	36	119	214	502	222	121	428	186	93	113	92	49
14	36	110	190	579	170	123	341	414	83	102	92	51
15	61	99	183	430	162	116	291	358	78	100	87	50
16	376	117	174	337	160	135	253	290	97	105	75	53
17	94	102	168	287	158	151	217	233	100	109	76	71
18	69	95	158	257	163	146	194	221	102	312	71	69
19	64	93	147	232	161	138	181	314	98	211	72	52
20	75	95	151	208	145	126	166	381	1,370	220	72	51
21	218	92	150	193	130	145	178	324	3,720	166	68	45
22	650	85	140	191	149	322	210	293	1,050	179	63	43
23	641	90	132	189	156	262	211	333	583	201	67	52
24	606	120	131	172	160	224	183	312	414	180	76	52
25	403	115	129	161	188	218	168	251	329	150	79	47
26	290	105	129	149	276	207	157	216	284	123	72	44
27	224	100	122	142	327	217	145	195	242	108	75	82
28	174	90	119	145	269	230	135	178	243	115	71	69
29	145	110	115	144	231	292	139	164	238	132	60	103
30	133	101	123	140	------	296	132	203	199	129	60	278
31	156	------	140	127	------	385	------	186	------	115	55	------
TOTAL	4,954	5,646	6,817	7,329	4,776	6,026	6,763	7,533	10,707	5,011	2,789	2,104
MEAN	160	188	220	236	165	194	225	243	357	162	90.0	70.1
MAX	650	675	936	643	327	385	428	414	3,720	312	190	278
MIN	32	85	88	123	108	116	132	118	78	100	55	43

CAL YR 1971 TOTAL 56,561 MEAN 155 MAX 936 MIN 30
WTR YR 1972 TOTAL 70,455 MEAN 193 MAX 3,720 MIN 32

03451500 French Broad River at Asheville, N. C.

LOCATION.--Lat 35°36'32", long 82°34'41", Buncombe County, on right bank 27 ft upstream from Pearson Bridge (Secondary Road 1348) at Asheville, 1.4 miles downstream from bridge on U. S. Highways 19 and 23, 3.2 miles downstream from Swannanoa River, and at mile 145.8.

DRAINAGE AREA.--945 sq mi.

PERIOD OF RECORD.--October 1895 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,950.28 ft above mean sea level. Sept. 17, 1895, to Dec. 31, 1901, nonrecording gage at present site at different datum. Mar. 19, 1903, to July 15, 1916, and Jan. 1, 1917, to Sept. 30, 1922, nonrecording gage at Smith Bridge 1.5 miles upstream at datum 11.52 ft higher. Oct. 1, 1922, to Aug. 9, 1930, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--77 years, 2,057 cfs (29.56 inches per year).

EXTREMES.--Current year: Maximum discharge, 19,200 cfs June 21 (gage height, 9.05 ft); minimum daily, 762 cfs Sept. 22.
Period of record: Maximum discharge, 110,000 cfs July 16, 1916 (gage height, 23.1 ft, present site and datum, from floodmarks), from rating curve extended above 43,000 cfs; minimum, 239 cfs at times in August and September 1925 (gage height, 0.16 ft).
Maximum stage observed since at least 1791, that of July 16, 1916, and flood of June 17, 1876, reached a stage of 18 ft, from studies by Tennessee Valley Authority.

REMARKS.--Records good except those below 1,200 cfs, which are fair. Many small diversions from tributaries above station for water supply. Diversions by city of Asheville and others from upstream tributaries in the Swannanoa River basin totaled about 36 cfs (see sta 03451000) of which 27.6 cfs was discharged as sewage effluent 4 miles below station. Slight diurnal fluctuation and occasional slight regulation at low flow caused by powerplant 46 miles upstream and small reservoirs above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 1306: 1895-1909, 1901(M), 1914-15(M), 1917(M), 1920-22(M), 1927(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	911	4,940	2,040	1,960	1,920	1,870	2,690	1,490	2,250	2,190	1,850	1,010
2	878	6,450	1,840	1,970	1,930	1,930	2,460	1,460	2,000	2,090	1,820	970
3	845	6,340	1,850	2,030	2,120	2,130	2,290	4,090	1,960	2,140	1,610	957
4	812	5,220	2,090	2,320	2,290	1,990	2,180	5,160	1,820	2,000	1,460	1,050
5	867	3,700	2,280	3,360	2,020	1,860	2,080	3,360	1,760	2,230	1,390	1,380
6	988	3,090	4,930	2,780	1,950	1,760	1,990	2,520	1,730	2,130	1,570	1,390
7	867	2,820	10,500	2,400	1,960	1,760	1,950	2,230	2,170	1,920	1,840	1,140
8	801	2,570	12,300	2,200	1,920	1,820	2,160	2,280	1,790	1,830	1,780	1,080
9	812	2,390	12,100	2,130	1,840	1,860	2,000	2,940	1,660	1,760	1,610	1,050
10	977	2,260	9,020	2,930	1,810	1,750	1,830	2,520	1,630	1,730	1,590	1,010
11	933	2,150	6,380	5,300	1,750	1,680	1,860	2,200	1,580	1,670	2,020	905
12	856	2,030	4,390	5,050	1,740	1,610	2,800	2,060	1,500	1,600	1,790	918
13	823	1,950	3,600	4,360	2,720	1,590	2,490	2,040	1,470	1,530	1,560	866
14	801	1,880	3,190	6,310	2,780	1,580	2,420	4,400	1,440	1,540	1,630	801
15	856	1,820	3,010	5,100	2,340	1,550	2,210	5,450	1,410	1,490	1,500	901
16	4,040	1,780	3,060	3,770	2,180	1,600	2,060	4,310	1,390	1,590	1,360	788
17	2,940	1,730	2,960	3,180	2,110	1,970	1,970	3,070	2,050	1,730	1,310	840
18	1,720	1,690	2,750	2,940	2,150	1,820	1,870	2,720	1,970	1,910	1,260	1,040
19	1,400	1,660	2,560	2,790	2,200	1,690	1,800	3,050	2,030	1,790	1,220	931
20	1,290	1,650	2,570	2,670	1,980	1,630	1,710	3,760	6,020	1,930	1,210	853
21	1,570	1,610	2,800	2,580	1,920	1,610	1,710	3,480	17,600	1,810	1,180	788
22	6,030	1,550	2,580	2,520	1,970	2,980	1,800	3,090	12,100	1,700	1,150	762
23	8,040	1,520	2,390	2,570	1,950	3,030	1,940	3,070	8,800	1,630	1,140	775
24	8,960	1,740	2,310	2,430	1,930	2,320	1,760	3,090	4,570	1,600	1,150	788
25	6,560	2,190	2,270	2,300	1,960	2,130	1,700	2,680	3,020	1,520	1,280	840
26	3,570	1,960	2,200	2,180	2,080	2,110	1,670	2,390	2,660	1,700	1,250	814
27	2,810	1,820	2,140	2,120	2,160	2,130	1,610	2,210	2,420	1,820	1,260	984
28	2,440	1,820	2,080	2,110	2,000	2,210	1,580	2,110	2,430	1,750	1,350	1,430
29	2,190	1,910	2,020	2,080	1,920	2,430	1,560	2,040	2,890	1,670	1,120	1,220
30	2,040	2,340	2,010	2,030	------	2,650	1,490	2,210	2,500	2,080	1,040	3,010
31	2,170	------	2,060	1,970	------	2,720	------	2,540	------	1,820	1,010	------
TOTAL	70,797	76,580	118,280	90,440	59,610	61,770	60,140	89,930	98,560	55,900	44,340	31,231
MEAN	2,284	2,553	3,815	2,917	2,056	1,993	2,005	2,901	3,285	1,803	1,430	1,041
MAX	8,960	6,450	12,300	6,310	2,780	3,030	2,990	5,450	17,600	2,230	2,020	3,010
MIN	801	1,520	1,840	1,960	1,740	1,550	1,490	1,460	1,390	1,490	1,010	762
CFSM	2.42	2.70	4.04	3.09	2.18	2.11	2.12	3.07	3.48	1.91	1.51	1.10
IN.	2.79	3.01	4.66	3.56	2.35	2.43	2.37	3.54	3.88	2.20	1.75	1.23

CAL YR 1971 TOTAL 754,352 MEAN 2,067 MAX 12,300 MIN 779 CFSM 2.19 IN 29.70
WTR YR 1972 TOTAL 857,578 MEAN 2,343 MAX 17,600 MIN 762 CFSM 2.48 IN 33.76

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	2200	5.91	9,740	6-21	0830	9.05	19,200
12- 9	0330	7.10	12,900				

03453000 Ivy River near Marshall, N. C.

LOCATION.--Lat 35°46'10", long 82°37'16", Madison County, on right bank 0.2 mile downstream from bridge on Secondary Road 1586, 1.9 miles upstream from mouth, and 4.0 miles southeast of Marshall.

DRAINAGE AREA.--158 sq mi.

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,700.41 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--39 years, 151 cfs (12.98 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,990 cfs Apr. 12 (gage height, 8.61 ft); minimum, 33 cfs Oct. 15, Sept. 26; minimum gage height, 1.90 ft Oct. 15.
Period of record: Maximum discharge, 14,400 cfs Mar. 26, 1965 (gage height, 14.52 ft); minimum, 3 cfs Jan. 20, 1940, result of freezeup; minimum gage height, 1.51 ft Aug. 30, Sept. 2, 1953; minimum daily discharge, 8.5 cfs Sept. 2, 18, 1953.
Flood in June 1876 reached a stage of 16.0 ft, from studies by Tennessee Valley Authority (discharge, 14,000 cfs). An outstanding but lesser flood occurred in July 1916 (stage and discharge unknown).

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 803: 1934(M), 1935. WSP 1910: 1936(P), 1937(M), 1940(M), 1946(M), 1957(P).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	171	73	146	110	291	579	151	152	96	165	41
2	40	207	68	143	116	344	494	146	136	88	202	40
3	43	648	76	149	195	463	410	344	124	88	171	38
4	42	333	91	212	238	341	368	496	115	86	128	47
5	39	216	111	276	193	300	320	403	111	228	112	101
6	55	165	294	225	190	250	280	324	106	140	99	68
7	44	144	648	185	191	224	258	277	113	109	106	50
8	37	118	414	155	167	231	371	290	97	95	132	46
9	40	106	280	150	155	197	292	280	94	86	90	45
10	51	101	219	433	143	183	268	252	93	84	100	43
11	44	91	183	773	135	171	265	222	89	79	83	40
12	39	86	155	559	132	161	1,740	204	83	72	79	39
13	37	81	150	492	400	155	1,090	200	80	70	73	38
14	36	78	128	634	372	167	644	295	79	68	68	37
15	34	73	119	435	341	142	478	263	75	105	63	38
16	91	69	115	305	310	166	388	227	73	151	60	36
17	53	67	124	261	289	232	325	207	80	120	61	47
18	45	64	111	223	274	202	280	187	186	219	58	64
19	41	63	101	201	271	194	248	189	93	151	57	45
20	39	61	135	183	235	184	227	288	290	106	83	40
21	53	58	135	179	214	178	237	227	1,130	123	63	37
22	178	55	122	162	275	410	283	337	346	165	55	37
23	305	53	111	158	315	356	272	354	225	162	52	37
24	416	81	107	144	310	305	240	354	166	138	53	35
25	204	97	102	137	362	280	222	284	138	103	57	35
26	146	76	97	124	616	265	205	235	118	97	58	34
27	116	76	91	121	568	389	188	199	104	84	56	37
28	98	73	88	135	428	633	175	178	108	162	50	42
29	86	76	86	133	343	715	166	167	135	283	46	81
30	78	82	95	124	------	595	157	167	117	300	43	142
31	74	------	142	116	------	651	------	187	------	206	42	------
TOTAL	2,640	3,669	4,771	7,633	7,885	9,375	11,470	7,934	4,856	4,064	2,564	1,453
MEAN	85.2	122	154	246	272	302	382	256	162	131	82.7	48.4
MAX	416	648	648	773	616	715	1,740	496	1,130	300	202	142
MIN	34	53	68	106	110	142	157	146	73	68	42	34
CFSM	.54	.77	.97	1.56	1.72	1.91	2.42	1.62	1.03	.83	.52	.31
IN.	.62	.86	1.12	1.80	1.86	2.21	2.70	1.87	1.14	.96	.60	.34

CAL YR 1971 TOTAL 51,767 MEAN 142 MAX 648 MIN 34 CFSM .90 IN 12.19
WTR YR 1972 TOTAL 68,314 MEAN 187 MAX 1,740 MIN 34 CFSM 1.18 IN 16.08

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-12	1530	8.61	3,990	6-21	0200	7.59	2,850

03453500 French Broad River at Marshall, N. C.

LOCATION.--Lat 35°47'10", long 82°39'39", Madison County, on right bank 0.7 mile upstream from Hayes Creek, 1.0 mile downstream from Ivy River, 1.5 miles southeast of Marshall, and at mile 126.7.

DRAINAGE AREA.--1,332 sq mi.

PERIOD OF RECORD.--October 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,646.79 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--30 years, 2,371 cfs (24.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 22,600 cfs June 21 (gage height, 8.35 ft); minimum, 855 cfs Sept. 23 (gage height, 1.17 ft); minimum daily, 873 cfs Sept. 24.
Period of record: Maximum discharge, 40,400 cfs Mar. 26, 1965 (gage height, 11.54 ft); minimum, 193 cfs Sept. 13, 14, 1954 (gage height, 0.36 ft); minimum daily, 292 cfs Sept. 27, 28, 1954.
Maximum stage observed since at least 1791, 22.0 ft July 16, 1916 (discharge, 115,000 cfs), and flood of Aug. 30, 1940, reached a stage of 16.6 ft (discharge, 70,000 cfs), from high-water marks, flood profiles, and studies by Tennessee Valley Authority.

REMARKS.--Records good. Small diversions from tributaries for water supply. Slight diurnal fluctuation and occasional slight regulation at low flow caused by small reservoirs above station. Prior to July 1963, some regulation by Weaverville plant of Carolina Power and Light Company 15 miles upstream.

REVISIONS (WATER YEARS).--WSP 1436: 1954(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,210	4,650	2,240	2,230	2,190	2,410	4,060	1,800	2,680	2,550	2,250	1,120
2	1,160	6,280	1,990	2,260	2,200	2,520	3,520	1,790	2,350	2,440	2,400	1,090
3	1,090	7,340	1,980	2,350	2,490	2,990	3,140	3,930	2,210	2,480	2,050	1,060
4	1,050	5,720	2,240	2,540	2,800	2,640	2,910	6,060	2,110	2,330	1,810	1,150
5	1,050	4,130	2,540	3,880	2,420	2,430	2,720	4,390	2,040	2,900	1,680	1,620
6	1,240	3,400	4,960	3,390	2,340	2,240	2,550	3,210	2,020	2,560	1,680	1,670
7	1,130	3,050	11,300	2,850	2,340	2,190	2,460	2,770	2,410	2,280	2,140	1,380
8	1,020	2,760	12,900	2,580	2,260	2,250	2,810	2,800	2,100	2,140	2,110	1,250
9	993	2,550	12,700	2,470	2,170	2,270	2,590	3,460	1,920	2,040	2,020	1,190
10	1,130	2,420	9,660	3,550	2,110	2,150	2,340	3,110	1,870	2,000	2,000	1,160
11	1,160	2,300	6,790	6,500	2,060	2,050	2,360	2,660	1,820	1,940	2,290	1,070
12	1,050	2,170	4,850	6,130	2,000	1,950	5,900	2,470	1,710	1,860	2,160	1,010
13	994	2,080	4,010	5,140	3,360	1,910	5,330	2,430	1,660	1,790	1,790	1,030
14	968	2,010	3,580	7,250	3,590	1,920	3,740	4,510	1,640	1,790	1,870	933
15	951	1,950	3,340	5,920	3,020	1,860	3,140	5,910	1,600	1,800	1,730	922
16	3,550	1,890	3,370	4,480	2,770	1,900	2,790	5,070	1,560	1,860	1,560	909
17	3,510	1,870	3,340	3,770	2,650	2,330	2,570	3,720	2,220	2,200	1,490	942
18	2,100	1,820	3,080	3,430	2,660	2,260	2,400	3,210	2,200	2,470	1,440	1,180
19	1,680	1,790	2,860	3,240	2,740	2,060	2,260	3,400	2,360	2,180	1,390	1,090
20	1,520	1,770	2,860	3,090	2,460	1,970	2,150	4,450	5,660	2,190	1,400	1,020
21	1,560	1,720	3,120	2,980	2,380	1,930	2,160	4,130	20,300	2,190	1,340	926
22	5,800	1,650	2,930	2,890	2,480	3,380	2,260	4,050	13,400	2,240	1,300	893
23	8,260	1,610	2,700	2,900	2,530	3,840	2,400	3,920	9,350	2,130	1,270	877
24	9,250	1,800	2,590	2,790	2,480	2,940	2,210	3,940	5,300	1,940	1,280	873
25	6,970	2,330	2,530	2,640	2,570	2,650	2,080	3,380	3,580	1,800	1,420	925
26	3,970	2,150	2,460	2,480	3,000	2,600	2,040	2,940	3,110	1,940	1,410	928
27	3,050	1,960	2,380	2,400	3,120	2,790	1,970	2,660	2,830	2,080	1,400	965
28	2,630	1,950	2,320	2,420	2,760	3,210	1,930	2,500	2,780	2,200	1,470	1,590
29	2,340	1,980	2,260	2,370	2,540	3,640	1,880	2,410	3,350	2,290	1,320	1,440
30	2,160	2,470	2,260	2,320	------	3,800	1,810	2,510	2,990	2,610	1,190	2,990
31	2,130	------	2,400	2,250	------	4,200	------	2,950	------	2,330	1,150	------
TOTAL	76,676	81,570	128,540	105,490	74,490	79,280	82,480	106,540	111,130	67,550	51,810	35,203
MEAN	2,473	2,719	4,146	3,403	2,569	2,557	2,749	3,437	3,704	2,179	1,671	1,173
MAX	9,250	7,340	12,900	7,250	3,590	4,200	5,900	6,060	20,300	2,900	2,400	2,990
MIN	951	1,610	1,980	2,230	2,000	1,860	1,810	1,790	1,560	1,790	1,150	873
CFSM	1.86	2.04	3.11	2.55	1.93	1.92	2.06	2.58	2.78	1.64	1.25	.88
IN.	2.14	2.28	3.59	2.95	2.08	2.21	2.30	2.98	3.10	1.89	1.45	.98

CAL YR 1971 TOTAL 890,870 MEAN 2,441 MAX 12,900 MIN 951 CFSM 1.83 IN 24.88
WTR YR 1972 TOTAL 1,000,759 MEAN 2,734 MAX 20,300 MIN 873 CFSM 2.05 IN 27.95

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	2315	5.45	10,500	4-12	1530	5.53	10,800
12- 9	0545	6.18	13,200	6-21	0200	8.35	22,600

03455500 West Fork Pigeon River above Lake Logan, near Hazelwood, N. C.

LOCATION.--Lat 35°23'46", long 82°56'17", Haywood County, on right bank at upstream side of bridge on Secondary Road 1216, 600 ft upstream from Big Creek, 1.1 miles upstream from Lake Logan, 6.7 miles southeast of Hazelwood, and at mile 9.3.

DRAINAGE AREA.--27.6 sq mi.

PERIOD OF RECORD.--February 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,976.00 ft above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--18 years, 99.1 cfs (48.76 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,290 cfs June 20 (gage height, 7.12 ft); minimum, 21 cfs Sept. 23, 24, 25, 26 (gage height, 1.18 ft).
Period of record: Maximum discharge, 9,740 cfs Feb. 13, 1966 (gage height, 9.5 ft, from floodmarks); minimum, 9.4 cfs Sept. 29, 30, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	450	56	84	79	97	108	59	73	100	78	30
2	28	262	53	124	83	135	100	58	68	97	68	30
3	28	277	69	93	108	129	96	153	65	93	63	28
4	27	147	85	282	82	99	108	97	62	97	58	.30
5	34	119	193	182	101	91	92	73	59	120	57	51
6	31	106	743	131	79	83	86	67	60	90	55	35
7	26	98	916	114	80	80	103	65	58	82	61	30
8	25	86	279	104	74	118	176	113	53	77	60	29
9	37	81	200	177	70	83	106	85	51	75	53	28
10	32	76	199	442	68	79	99	71	50	71	54	27
11	27	70	175	478	67	76	133	67	46	68	56	26
12	25	67	141	248	97	74	128	64	45	64	55	25
13	24	63	131	402	115	71	110	175	44	62	49	25
14	24	60	115	306	83	71	100	325	43	65	46	24
15	96	58	139	212	82	65	93	128	41	66	43	24
16	101	56	131	176	77	96	90	99	69	65	41	23
17	41	54	148	165	81	81	83	90	55	81	41	33
18	36	52	112	150	77	72	79	84	61	96	39	30
19	33	54	104	144	68	70	76	117	59	76	38	26
20	53	52	244	134	85	66	73	145	1,730	66	37	24
21	235	47	150	154	88	72	72	115	477	61	36	23
22	652	44	126	143	87	219	120	147	206	92	35	22
23	196	44	114	129	81	99	80	147	153	119	37	22
24	129	102	110	114	117	88	73	117	127	85	36	22
25	103	63	102	110	143	89	70	103	112	67	55	22
26	85	55	94	100	197	86	67	95	102	60	49	27
27	75	55	88	96	116	150	64	87	137	57	40	39
28	68	52	87	97	98	137	63	83	191	68	35	35
29	63	91	84	93	91	163	62	87	137	131	33	38
30	60	66	101	94	------	123	62	102	115	95	31	154
31	162	------	91	83	------	116	------	82	------	85	30	------
TOTAL	2,585	2,907	5,380	5,361	2,674	3,078	2,772	3,300	4,549	2,531	1,469	982
MEAN	83.4	96.9	174	173	92.2	99.3	92.4	106	152	81.6	47.4	32.7
MAX	652	450	916	478	197	219	176	325	1,730	131	78	154
MIN	24	44	53	83	67	65	62	58	41	57	30	22
CFSM	3.02	3.51	6.30	6.27	3.34	3.60	3.35	3.84	5.51	2.96	1.72	1.18
IN.	3.48	3.92	7.25	7.23	3.60	4.15	3.74	4.45	6.13	3.41	1.98	1.32

CAL YR 1971 TOTAL 38,316 MEAN 105 MAX 916 MIN 24 CFSM 3.80 IN 51.64
WTR YR 1972 TOTAL 37,588 MEAN 103 MAX 1,730 MIN 22 CFSM 3.73 IN 50.66

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0715	4.90	2,140	6-20	1945	7.12	5,290

03456000 West Fork Pigeon River below Lake Logan, near Waynesville, N. C.

LOCATION.--Lat 35°26'38", long 82°54'46", Haywood County, on right bank at downstream side of bridge on Secondary Road 1111 at Riverside Church, 2.6 miles downstream from Little East Fork Pigeon River, 3.4 miles downstream from Lake Logan, 3.8 miles upstream from confluence with East Fork Pigeon River, and 5.3 miles southeast of Waynesville.

DRAINAGE AREA.--55.3 sq mi.

PERIOD OF RECORD.--March 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,725.08 ft above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--18 years, 156 cfs (38.31 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 6,920 cfs June 20 (gage height, 8.66 ft); minimum, 41 cfs Sept. 25, 26, 27 (gage height, 0.61 ft); minimum daily, 41 cfs Sept. 26.
Period of record: Maximum discharge, 8,930 cfs Feb. 13, 1966 (gage height, 9.62 ft), from rating curve extended above 3,300 cfs; minimum, 7.6 cfs Sept. 7, 1954, minimum gage height, 0.10 ft Oct. 22, 23, 1963.

REMARKS.--Records good. Considerable regulation at times caused by Lake Logan (see p. 186).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	523	101	145	147	167	200	121	141	193	125	51
2	51	400	96	194	150	210	190	118	134	182	110	51
3	50	371	111	161	191	231	181	235	128	171	104	49
4	49	233	122	387	153	180	197	180	122	173	97	52
5	53	196	228	303	145	168	175	142	118	205	95	85
6	50	175	971	233	150	155	164	134	126	163	91	63
7	46	163	1,410	207	150	152	170	128	122	148	111	53
8	45	145	482	190	139	203	297	179	109	140	116	50
9	50	137	342	268	136	156	197	158	105	136	89	49
10	48	130	316	657	132	149	186	135	103	130	111	48
11	46	121	285	768	130	145	222	128	97	123	105	48
12	45	115	242	463	149	141	308	124	93	117	106	47
13	45	110	226	588	219	137	267	175	91	114	93	46
14	44	105	204	520	155	135	230	499	90	119	87	46
15	65	102	220	372	152	127	208	222	86	118	80	45
16	176	98	206	302	147	170	196	181	111	117	75	44
17	69	95	231	290	152	154	179	166	118	141	74	52
18	59	92	190	268	149	137	168	156	108	149	70	49
19	55	92	178	254	137	133	162	190	108	137	68	46
20	70	94	333	235	128	128	155	258	2,260	115	66	45
21	306	82	243	254	133	133	152	209	1,070	107	64	44
22	957	78	209	238	156	337	216	263	435	111	62	44
23	338	78	193	224	154	187	164	281	324	185	62	43
24	231	160	187	203	183	169	150	235	270	153	63	42
25	185	116	175	195	218	171	143	212	235	119	69	42
26	153	99	165	180	280	164	138	190	212	106	87	41
27	134	101	155	174	201	230	133	168	222	102	68	47
28	122	93	152	172	175	227	129	158	309	106	59	46
29	113	139	149	165	164	258	126	165	265	184	56	49
30	107	117	164	167	------	216	124	178	222	158	53	180
31	193	------	163	152	------	213	------	156	------	135	52	------
TOTAL	4,006	4,560	8,449	8,929	4,675	5,483	5,527	5,844	7,934	4,357	2,568	1,597
MEAN	129	152	273	288	161	177	184	189	264	141	82.8	53.2
MAX	957	523	1,410	768	280	337	308	499	2,260	205	125	180
MIN	44	78	96	145	128	127	124	118	86	102	52	41
(†)	+25	-16	+2	0	-4	+8	-5	+1	+4	-4	-7	+6
MEAN‡	130	151	273	288	161	177	184	189	265	140	82.6	53.4
CFSM‡	2.35	2.73	4.94	5.21	2.91	3.20	3.33	3.42	4.79	2.53	1.49	0.97
IN.‡	2.71	3.06	5.68	6.00	3.14	3.69	3.71	3.93	5.34	2.93	1.72	1.08

CAL YR 1971 TOTAL 62,485 MEAN 171 MAX 1,410 MIN 44 MEAN‡ 171 CFSM‡ 3.09 IN.‡ 42.02
WTR YR 1972 TOTAL 63,929 MEAN 175 MAX 2,260 MIN 41 MEAN‡ 175 CFSM‡ 3.16 IN.‡ 43.00

† Change in contents, in cfs-days, in Lake Logan.
‡ Adjusted for change in lake contents.

03456500 East Fork Pigeon River near Canton, N. C.

LOCATION.--Lat 35°27'42", long 82°52'12", Haywood County, on right bank 800 ft upstream from bridge on U. S. Highway 276, 0.3 mile downstream from Dix Creek, 1.6 miles (revised) upstream from confluence with West Fork Pigeon River, and 5.2 miles southwest of Canton.

DRAINAGE AREA.--51.5 sq mi.

PERIOD OF RECORD.--March 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,674.34 ft above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--18 years, 137 cfs (36.13 inches per year).

EXTREMES.--Current year: Maximum discharge, 10,100 cfs June 20 (gage height, 9.39 ft); minimum, 34 cfs Sept. 25, 26; minimum gage height, 1.22 ft Oct. 14, 15.
Period of record: Maximum discharge, 12,100 cfs Feb. 13, 1966 (gage height, 10.13 ft), from rating curve extended above 4,600 cfs; minimum, 12 cfs Jan. 9, 1956, result of freezeup; minimum gage height, 0.81 ft Dec. 15, 1958, result of freezeup.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	557	100	116	117	121	144	92	142	177	129	51
2	45	528	96	132	119	137	141	92	134	166	96	50
3	45	409	117	119	145	152	134	360	128	156	90	47
4	44	306	118	224	127	131	137	204	122	148	84	50
5	48	254	158	187	119	125	127	162	117	153	83	73
6	48	218	857	158	118	118	121	146	130	137	80	57
7	42	195	1,560	146	116	116	121	136	138	128	96	51
8	42	173	700	138	109	131	175	171	115	122	115	48
9	46	159	483	156	107	114	133	159	112	117	83	47
10	50	147	400	330	104	110	128	141	109	113	108	44
11	43	136	336	443	102	107	138	131	102	107	115	43
12	41	128	282	319	115	103	266	124	98	102	96	42
13	40	121	252	380	160	101	226	154	96	109	88	41
14	40	115	224	409	125	100	193	611	93	113	83	40
15	73	110	222	311	123	96	173	312	89	102	77	39
16	171	106	203	262	121	111	160	255	93	97	74	40
17	70	102	195	237	121	107	147	220	93	112	72	49
18	62	99	175	214	122	98	138	196	100	119	69	50
19	58	96	166	200	115	96	132	214	105	107	66	42
20	65	94	214	185	117	93	126	261	2,400	94	65	39
21	269	89	179	182	124	95	125	220	1,700	89	63	37
22	940	86	163	180	126	220	151	234	644	88	61	37
23	505	84	155	172	123	135	128	248	439	145	60	37
24	355	129	150	157	130	124	118	229	336	172	63	36
25	259	106	143	151	138	126	114	203	280	139	65	36
26	202	94	137	142	158	121	111	185	239	115	66	36
27	171	96	130	137	140	134	107	169	217	110	63	48
28	150	91	127	136	128	134	103	160	245	102	56	47
29	135	124	123	130	122	155	101	161	238	117	54	45
30	125	111	126	128	------	145	99	176	200	110	52	93
31	255	------	125	121	------	151	------	157	------	102	50	------
TOTAL	4,484	5,063	8,416	6,302	3,591	3,807	4,217	6,283	9,054	3,768	2,422	1,395
MEAN	145	169	271	203	124	123	141	203	302	122	78.1	46.5
MAX	940	557	1,560	443	160	220	266	611	2,400	177	129	93
MIN	40	84	96	116	102	93	99	92	89	88	50	36
CFSM	2.82	3.28	5.26	3.94	2.41	2.39	2.74	3.94	5.86	2.37	1.52	.90
IN.	3.24	3.66	6.08	4.55	2.59	2.75	3.05	4.54	6.54	2.72	1.75	1.01

CAL YR 1971 TOTAL 53,749 MEAN 147 MAX 1,560 MIN 40 CFSM 2.85 IN 38.82
WTR YR 1972 TOTAL 58,802 MEAN 161 MAX 2,400 MIN 36 CFSM 3.13 IN 42.47

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0730	5.44	2,740	6-20	2230	9.39	10,100

03457000 Pigeon River at Canton, N. C.

LOCATION.--Lat 35°31'30", long 82°50'28", Haywood County, on left bank 100 ft upstream from small tributary, 200 ft downstream from Pigeon Street Bridge, 0.5 mile from U. S. Highways 19 and 23 at Canton, and at mile 64.1. Records include flow of small tributary.

DRAINAGE AREA.--133 sq mi, includes that of small tributary below gage.

PERIOD OF RECORD.--May 1907 to June 1909, October 1928 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,572.22 ft above mean sea level (levels by Tennessee Valley Authority). Prior to June 1909, nonrecording gage at bridge 0.4 mile downstream at different datum. Dec. 6, 1928, to Jan. 3, 1929, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--45 years (1907-8, 1928-72), 315 cfs (32.16 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 14,000 cfs June 21 (gage height, 13.08 ft); minimum, 82 cfs Sept. 26; minimum gage height, 0.86 ft Oct. 15; minimum daily discharge, 84 cfs Sept. 25, 26.
Period of record: Maximum discharge, 31,600 cfs Aug. 30, 1940 (gage height, 20.75 ft, from floodmarks in gage well); minimum, 15 cfs Jan. 8, 1956 (gage height, 0.04 ft), result of freezeup; minimum daily, 27 cfs Sept. 7, 1954.
Flood of about 1810 is believed to have been approximately equal to that of Aug. 30, 1940, and flood of June 15, 1876, reached a stage of 18.3 ft (discharge, 25,700 cfs), from studies by Tennessee Valley Authority.

REMARKS.--Records good. Occasional diurnal fluctuation and considerable regulation at low flow caused by Lake Logan on West Fork Pigeon River 12 miles upstream (see p. 186). Town of Canton diverted above station an average of 1.02 cfs for municipal water supply. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 853: 1929-37(M). WSP 1306: 1908(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	1,150	216	293	267	291	378	236	31	413	289	112
2	113	1,090	204	361	274	339	362	227	294	384	232	110
3	113	869	228	324	358	431	339	671	279	363	217	105
4	109	606	275	645	305	327	354	449	266	349	201	109
5	116	507	662	582	264	305	323	346	254	400	197	177
6	121	445	2,550	452	281	281	302	315	257	332	190	141
7	103	409	3,010	406	277	277	295	295	302	304	205	115
8	101	361	1,250	374	251	335	520	374	242	287	296	107
9	111	335	892	424	244	277	350	376	233	275	193	105
10	120	310	751	1,130	238	267	331	310	227	266	259	101
11	105	289	619	1,420	232	257	374	290	212	252	261	96
12	102	272	563	918	241	247	732	278	201	239	234	96
13	100	254	501	1,010	426	241	575	309	196	235	208	94
14	99	240	480	1,130	291	238	476	1,280	192	254	199	93
15	100	228	487	780	281	222	426	615	183	243	179	91
16	417	222	484	624	277	270	390	485	188	230	167	90
17	175	213	432	580	277	277	354	428	252	297	163	109
18	143	204	394	530	281	235	335	387	217	307	153	111
19	134	198	529	495	261	229	320	429	217	284	148	97
20	142	201	534	458	288	219	305	609	3,650	231	144	91
21	557	184	433	471	247	219	302	476	4,040	214	141	88
22	2,060	172	399	440	288	597	395	602	1,300	228	136	87
23	995	169	386	435	288	342	327	635	920	345	134	87
24	686	296	365	382	312	305	291	541	724	386	139	85
25	521	258	339	362	366	309	277	474	609	291	142	84
26	417	207	320	335	462	295	267	425	528	257	178	84
27	357	213	315	323	374	362	267	380	476	251	145	94
28	321	198	313	323	320	390	251	353	660	233	128	105
29	289	268	310	305	298	435	244	360	612	316	121	100
30	265	258	316	309	------	390	239	387	492	316	116	288
31	401	------	338	281	------	408	------	351	------	260	112	------
TOTAL	9,506	10,626	18,895	16,902	8,569	9,617	10,701	13,693	18,533	9,042	5,626	3,255
MEAN	307	354	610	545	295	310	357	442	618	292	181	109
MAX	2,060	1,150	3,010	1,420	462	597	732	1,280	4,040	413	296	288
MIN	99	169	204	281	232	219	239	227	183	214	112	84
(†)	+56.5	+15.2	+28.4	+32.1	+26.8	+36.5	+26.4	+30.1	+35.9	+29.6	+24.6	+39.9
MEAN‡	308	355	610	546	296	311	358	443	619	293	182	110
CFSM‡	2.32	2.67	4.59	4.11	2.23	2.34	2.69	3.33	4.65	2.20	1.37	0.83
IN.‡	2.67	2.98	5.29	4.74	2.40	2.70	3.00	3.84	5.19	2.54	1.58	0.92

CAL YR 1971 TOTAL 134,869 MEAN 370 MAX 3,010 MIN 99 MEAN‡ 371 CFSM‡ 2.79 IN.‡ 37.82
WTR YR 1972 TOTAL 134,965 MEAN 369 MAX 4,040 MIN 84 MEAN‡ 370 CFSM‡ 2.78 IN.‡ 37.85

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0200	8.06	5,590	6-21	0030	13.08	14,000

† Diversion by city of Canton, and change in contents in Lake Logan, equivalent in cfs-days. Records of diversion furnished by city of Canton.
‡ Adjusted for diversion and change in lake contents.

03457500 Allen Creek near Hazelwood, N. C.

LOCATION.--Lat 35°25'49", long 83°00'33", Haywood County, on left bank on Secondary Road 1147, 180 ft downstream from Rocky Branch, 3.0 miles upstream from mouth, and 3.3 miles south of Hazelwood.

DRAINAGE AREA.--14.4 sq mi.

PERIOD OF RECORD.--August 1949 to September 1972 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 3,047.83 ft above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--23 years, 34.9 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 610 cfs June 20 (gage height, 2.95 ft); minimum, 4.4 cfs Sept. 25 (gage height, 0.86 ft); minimum daily, 5.5 cfs Sept. 25.
Period of record: Maximum discharge, 1,470 cfs Jan. 21, 1959; maximum gage height, 4.13 ft Mar. 26, 1965; minimum discharge, 1.0 cfs Sept. 9, 1954 (gage height, 0.75 ft); minimum daily, 2.0 cfs Oct. 6, 1970.
Flood of Aug. 30, 1940 reached a stage of 7.0 ft (discharge, about 6,000 cfs), from studies by the Tennessee Valley Authority.

REMARKS.--Records good. Considerable diurnal fluctuation at low flow caused by intermittent operation of filter plant 0.3 mile upstream since Aug. 29, 1954. Town of Waynesville diverts about 7 cfs for water supply at diversion dam 0.4 mile upstream. Sewage is discharged into Pigeon River.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	42	20	32	35	45	52	29	33	41	25	11
2	9.6	33	17	48	39	58	48	30	32	40	22	8.8
3	9.6	64	19	38	62	53	47	56	30	36	19	11
4	10	34	22	86	39	43	54	43	31	41	19	15
5	12	28	21	75	38	42	46	36	28	56	19	23
6	9.9	26	99	58	37	37	44	34	28	39	16	13
7	9.9	25	222	48	39	37	60	33	29	34	35	9.5
8	7.3	19	86	43	33	47	78	42	25	32	29	11
9	13	21	65	72	32	38	55	37	24	31	20	11
10	12	17	56	146	33	35	50	34	25	29	21	11
11	10	18	51	192	31	36	64	31	23	27	39	9.6
12	7.5	15	44	117	40	34	62	30	21	25	30	7.3
13	7.2	15	43	110	43	33	55	37	22	25	25	8.9
14	8.7	16	36	97	37	33	50	55	21	24	23	9.3
15	9.0	16	39	80	36	31	46	46	19	24	18	9.0
16	18	13	41	67	35	46	47	37	25	25	19	8.3
17	11	12	47	64	38	38	43	36	25	32	17	14
18	8.4	14	36	59	35	34	41	34	22	28	16	11
19	9.5	13	37	57	34	35	39	46	16	25	14	9.6
20	11	13	75	56	31	32	40	61	192	22	16	9.2
21	32	13	54	60	33	40	38	52	106	22	14	8.3
22	118	12	44	57	38	74	59	75	55	24	14	8.2
23	41	12	41	50	37	44	42	66	41	21	12	8.6
24	32	38	40	49	47	41	38	55	36	19	14	7.9
25	26	22	37	45	59	42	38	51	33	21	13	5.5
26	21	19	35	42	82	40	36	45	30	20	14	9.7
27	18	18	33	42	55	59	35	44	36	17	13	20
28	16	18	32	41	47	54	33	40	64	24	12	14
29	15	29	32	42	43	69	33	41	65	49	11	21
30	16	20	40	39	------	57	33	38	49	34	12	47
31	23	------	36	37	------	55	------	38	------	30	10	------
TOTAL	560.0	655	1,510	2,039	1,178	1,363	1,406	1,332	1,185	917	581	370.7
MEAN	18.1	21.8	48.7	65.8	40.6	44.0	46.9	43.0	39.5	29.6	18.7	12.4
MAX	118	64	222	192	82	74	78	75	192	56	39	47
MIN	7.2	12	17	32	31	31	33	29	16	17	10	5.5

CAL YR 1971 TOTAL 12,728.7 MEAN 34.9 MAX 222 MIN 7.2
WTR YR 1972 TOTAL 13,096.7 MEAN 35.8 MAX 222 MIN 5.5

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0700	2.81	530	6-20	1915	2.95	610

03459000 Jonathan Creek near Cove Creek, N. C.

LOCATION.--Lat 35°37'22", long 83°00'26", Haywood County, on left bank on Secondary Road 1338, 1,500 ft downstream from ford, 0.7 mile upstream from mouth, and 2 miles downstream from Cove Creek and village of Cove Creek.

DRAINAGE AREA.--65.3 sq mi.

PERIOD OF RECORD.--October 1929 to September 1972 (discontinued). Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,383.89 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--43 years, 129 cfs (26.83 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,950 cfs Apr. 12 (gage height, 5.54 ft); minimum, 46 cfs Oct. 14, 15, 19, 20 (gage height, 0.95 ft).
Period of record: Maximum discharge, 3,860 cfs Mar. 26, 1965 (gage height, 8.30 ft); minimum, 18 cfs Jan. 2, 1940 (gage height, 0.54 ft), result of freezeup; minimum daily, 23 cfs Sept. 17, 18, 23, 1953.
Flood of June 1876 (stage and discharge unknown) probably exceeded any flood during period of record, from studies by Tennessee Valley Authority.

REMARKS.--Records good. Slight diurnal fluctuation at low flow caused by small gristmill above station prior to October 1959. Water quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 823: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	113	77	137	162	240	295	154	134	113	84	56
2	55	84	73	206	168	278	270	150	129	112	85	55
3	54	313	86	172	226	268	250	218	124	107	80	54
4	53	143	91	348	187	230	278	208	120	130	75	78
5	57	115	98	332	171	219	249	164	118	162	73	143
6	58	103	227	260	174	200	232	155	124	121	71	74
7	51	96	830	233	177	192	228	150	120	109	93	64
8	50	86	324	209	159	217	275	198	110	103	121	60
9	63	85	232	240	154	185	220	175	108	102	125	60
10	58	82	204	647	149	178	209	157	110	98	144	57
11	52	77	182	733	146	171	258	150	103	92	147	55
12	50	75	163	485	160	166	685	145	99	88	155	53
13	49	72	168	568	225	162	540	182	97	92	107	52
14	48	70	145	543	173	168	450	312	95	89	95	51
15	49	69	141	410	168	153	350	246	93	84	88	51
16	56	69	146	340	152	199	290	204	93	89	83	49
17	50	68	170	306	173	185	250	190	136	172	80	126
18	49	66	141	281	171	166	240	177	102	143	77	76
19	48	67	135	278	163	159	220	185	100	117	75	61
20	53	66	260	251	156	153	210	191	362	100	76	56
21	75	63	207	253	155	173	210	180	288	93	71	52
22	297	61	180	239	176	428	332	282	151	88	69	51
23	130	61	166	225	169	255	212	215	127	92	69	52
24	105	102	157	209	192	224	196	193	115	90	73	50
25	88	81	147	208	247	221	187	178	108	80	71	49
26	77	71	139	189	400	209	179	167	103	79	69	51
27	71	83	133	183	299	252	171	159	102	76	66	57
28	68	73	133	203	262	270	166	154	141	85	62	62
29	65	101	128	184	238	330	160	152	179	140	60	78
30	63	86	169	179	------	285	158	147	139	109	58	254
31	79	------	153	167	------	326	------	147	------	94	57	------
TOTAL	2,176	2,702	5,605	9,327	5,562	6,862	7,970	5,685	3,930	3,249	2,659	2,087
MEAN	70.2	90.1	181	301	192	221	266	183	131	105	85.8	69.6
MAX	297	313	830	733	400	428	685	312	362	172	155	254
MIN	48	61	73	137	146	153	158	145	93	76	57	49
CFSM	1.08	1.38	2.77	4.61	2.94	3.38	4.07	2.80	2.01	1.61	1.31	1.07
IN.	1.24	1.54	3.19	5.31	3.17	3.91	4.54	3.24	2.24	1.85	1.51	1.19

CAL YR 1971 TOTAL 53,660 MEAN 147 MAX 830 MIN 48 CFSM 2.25 IN 30.57
WTR YR 1972 TOTAL 57,814 MEAN 158 MAX 830 MIN 48 CFSM 2.42 IN 32.94

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 7	0800	5.11	1,670	4-12	0830	5.54	1,950
1-10	1330	4.25	1,110	6-20	2100	4.23	1,100
1-13	1915	4.29	1,130				

03459500 Pigeon River near Hepco, N. C.

LOCATION.--Lat 35°38'07", long 82°59'22", Haywood County, on left bank 95 ft east of Interstate Highway 40, 0.8 mile downstream from Jonathan Creek, 2.0 miles south of Hepco, 2.4 miles upstream from Fines Creek, and at mile 45.1.

DRAINAGE AREA.--350 sq mi.

PERIOD OF RECORD.--July 1927 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,335.95 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--45 years, 660 cfs (25.61 inches per year).

EXTREMES.--Current year: Maximum discharge, 17,900 cfs June 21 (gage height, 11.74 ft); minimum, 199 cfs Oct. 14, 15 (gage height, 1.36 ft).
Period of record: Maximum discharge, 32,700 cfs Aug. 30, 1940 (gage height, 15.82 ft, from floodmark in gage house), from rating curve extended above 12,000 cfs on basis of slope-area measurements at gage heights 14.94 and 15.82 ft; minimum, 81 cfs Sept. 30, 1941; minimum gage height, 0.81 ft Sept. 8, 1954.
Floods of June 1876 and February 1902 reached a stage of about 18 ft, from flood profiles by Tennessee Valley Authority (discharge, about 42,000 cfs).

REMARKS.--Records good. Considerable regulation by Lake Junaluska on Richland Creek and Lake Logan on West Fork Pigeon River for periods of low flow (combined capacity of reservoirs, about 2,000 cfs-days). (See p. 186). Water quality records collected 2.2 miles downstream from station for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 893: 1928-31, 1932(M), 1933-36, 1937-39(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	233	1,350	411	580	630	786	1,130	585	635	728	516	264
2	224	1,350	388	739	646	888	1,050	570	605	690	459	263
3	230	1,520	428	701	882	1,060	958	1,090	580	668	441	257
4	224	966	487	1,290	810	834	1,070	1,010	555	668	409	317
5	233	764	569	1,460	657	786	1,090	745	530	828	394	600
6	278	675	2,260	1,050	690	723	1,010	679	530	690	385	398
7	218	627	5,920	900	712	701	937	646	595	602	404	308
8	203	560	2,590	804	635	804	1,180	762	505	566	664	283
9	229	528	1,680	1,010	615	717	930	822	486	545	506	277
10	261	502	1,410	2,560	595	668	882	673	490	536	553	264
11	225	469	1,210	3,190	580	646	944	630	463	504	624	256
12	212	447	993	2,220	590	625	2,650	605	441	482	621	246
13	205	427	933	2,210	1,040	605	1,720	657	432	475	469	241
14	202	411	816	2,540	745	610	1,370	1,950	423	487	452	239
15	201	397	785	1,770	695	575	1,160	1,210	414	480	408	236
16	483	389	797	1,360	673	657	1,050	937	400	467	378	232
17	322	375	838	1,290	690	756	900	840	575	632	368	383
18	258	363	734	1,180	701	679	774	774	486	744	354	361
19	241	357	675	1,130	695	657	722	786	463	595	345	276
20	240	358	1,110	1,030	610	635	605	986	3,200	490	341	252
21	538	336	1,000	1,040	630	640	600	1,230	7,470	454	329	236
22	2,820	320	815	958	717	1,350	780	1,350	1,920	458	316	230
23	1,440	310	742	951	717	912	690	1,270	1,320	559	309	235
24	999	476	714	858	745	816	625	1,090	1,040	626	326	230
25	744	528	675	828	888	810	690	930	894	487	375	224
26	612	395	646	762	1,250	792	662	846	798	494	401	225
27	529	411	595	728	1,100	876	640	774	734	443	338	248
28	476	385	585	756	894	1,040	620	728	944	484	307	317
29	438	454	580	712	816	1,130	605	706	1,130	610	289	317
30	411	506	635	712	------	1,070	590	728	864	622	279	785
31	446	------	701	662	------	1,210	------	717	------	501	267	------
TOTAL	14,375	16,956	32,722	37,981	21,648	25,058	28,634	27,326	29,922	17,615	12,627	9,000
MEAN	464	565	1,056	1,225	746	808	954	881	997	568	407	300
MAX	2,820	1,520	5,920	3,190	1,250	1,350	2,650	1,950	7,470	828	664	785
MIN	201	310	388	580	580	575	590	570	400	443	267	224

CAL YR 1971 TOTAL 262,302 MEAN 719 MAX 5,920 MIN 201
WTR YR 1972 TOTAL 273,864 MEAN 748 MAX 7,470 MIN 201

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 7	1230	8.92	9,920	6-21	0415	11.74	17,900
4-12	1115	7.75	7,410				

03460000 Cataloochee Creek near Cataloochee, N. C.
(Hydrologic bench-mark station)

LOCATION.--Lat 35°40'02", long 83°04'23", Haywood County, in Great Smoky Mountains National Park, on left bank 20 ft downstream from bridge on State Highway 284, 500 ft upstream from Little Cataloochee Creek, 2 miles north of Cataloochee, and 3.7 miles upstream from mouth.

DRAINAGE AREA.--49.2 sq mi.

PERIOD OF RECORD.--October 1933 to September 1952, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,456.88 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--29 years, 107 cfs (29.53 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,620 cfs Apr. 12 (gage height, 6.31 ft); minimum, 37 cfs several days in October, Sept. 25, 26 (gage height, 2.18 ft).
Period of record: Maximum discharge, 5,080 cfs Mar. 6, 1963 (gage height, 8.08 ft); minimum, 9 cfs Jan. 2, 1940, Dec. 17, 24, 1943 (gage height, 1.87 ft), result of freezeup.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report. Records for Class A evaporation station 2.4 miles upstream published in reports of National Climatic Center, NOAA, U. S. Department of Commerce.

REVISIONS.--WSP 823: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	79	60	105	114	180	246	124	105	81	83	47
2	43	63	59	168	116	195	218	117	100	89	83	46
3	43	439	68	154	140	197	197	146	95	82	77	45
4	41	175	71	267	117	171	202	141	91	84	72	51
5	43	129	69	381	129	163	180	118	88	154	69	103
6	46	110	124	314	115	148	170	113	89	106	66	56
7	40	99	640	246	115	141	165	109	89	95	68	50
8	39	89	324	205	107	160	179	129	81	89	81	48
9	47	84	223	271	103	134	151	116	78	86	105	47
10	44	79	188	667	100	130	144	109	80	84	101	45
11	40	75	166	689	98	124	188	105	74	79	91	44
12	39	71	150	491	104	119	970	102	71	74	93	43
13	38	68	145	520	138	115	539	119	69	82	80	42
14	37	65	130	565	115	122	358	175	69	79	75	41
15	38	63	128	411	114	110	281	162	67	73	71	41
16	48	61	126	321	110	131	248	144	69	72	68	40
17	39	60	135	295	114	124	213	136	109	140	65	68
18	38	58	127	250	110	114	189	128	75	111	63	50
19	37	59	125	222	107	112	173	131	69	89	63	44
20	42	58	221	193	121	108	160	133	251	82	71	41
21	61	55	199	188	109	118	154	132	285	76	59	39
22	193	52	176	171	117	269	270	281	137	72	57	39
23	93	52	158	158	112	198	207	211	109	90	57	40
24	78	78	145	148	123	175	188	185	97	71	75	39
25	68	61	134	147	186	165	174	164	89	67	64	38
26	62	55	124	133	319	152	160	148	84	67	62	39
27	58	62	115	127	270	197	149	135	80	63	58	62
28	56	57	109	144	221	239	140	126	99	69	53	55
29	53	76	103	128	193	313	133	121	107	107	51	105
30	52	65	130	124	------	297	131	117	98	117	49	274
31	62	------	113	117	------	277	------	120	------	99	48	------
TOTAL	1,661	2,597	4,785	8,320	3,937	5,198	6,877	4,297	3,004	2,729	2,178	1,722
MEAN	53.6	86.6	154	268	136	168	229	139	100	88.0	70.3	57.4
MAX	193	439	640	689	319	313	970	281	285	154	105	274
MIN	37	52	59	105	98	108	131	102	67	63	48	38
CFSM	1.09	1.76	3.13	5.45	2.76	3.41	4.65	2.83	2.03	1.79	1.43	1.17
IN.	1.26	1.96	3.62	6.29	2.98	3.93	5.20	3.25	2.27	2.06	1.65	1.30

CAL YR 1971 TOTAL 45,230 MEAN 124 MAX 640 MIN 37 CFSM 2.52 IN 34.20
WTR YR 1972 TOTAL 47,305 MEAN 129 MAX 970 MIN 37 CFSM 2.62 IN 35.77

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	0300	4.78	1,100	1-10	1345	4.65	1,000
12-7	0800	5.00	1,290	4-12	0945	6.31	2,620

03463300 South Toe River near Celo, N. C.

LOCATION.--Lat 35°49'52", long 82°11'04", Yancey County, on right bank on Secondary Road 1168, 800 ft upstream from bridge on Secondary Road 1167, 0.3 mile downstream from Whiteoak Creek, 1.9 miles southeast of Celo, and at mile 20.1.

DRAINAGE AREA.--43.4 sq mi.

PERIOD OF RECORD.--July 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,658 ft above mean sea level.

AVERAGE DISCHARGE.--15 years, 141 cfs (44.12 inches per year).

EXTREMES.--Current year: Maximum discharge, 13,900 cfs June 20 (gage height, 9.87 ft); minimum, 24 cfs Sept. 21, 22, 23, 24, 25, 26 (gage height, 0.58 ft).
Period of record: Maximum discharge, 13,900 cfs June 20, 1972 (gage height, 9.87 ft), from rating curve extended above 4,500 cfs on basis of slope-area measurement of peak flow; minimum, 14 cfs Dec. 26, 1958, result of freezeup.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1910: 1958-59.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	745	101	108	117	159	176	105	147	165	72	33
2	48	703	94	134	117	201	171	102	139	152	74	32
3	48	612	99	121	144	215	157	199	132	142	69	31
4	42	403	112	181	127	155	182	177	126	142	60	31
5	46	325	118	185	147	142	168	136	122	215	59	60
6	50	274	566	147	117	127	152	123	117	148	57	47
7	40	243	1,190	131	114	124	146	116	111	131	59	37
8	37	214	503	121	105	137	195	183	101	122	62	34
9	44	192	357	144	102	116	144	184	97	116	53	32
10	50	178	310	285	97	111	133	152	93	110	56	31
11	40	163	269	596	97	106	132	137	87	103	65	30
12	37	148	224	325	114	103	330	128	84	99	59	29
13	36	141	208	385	156	101	225	192	82	97	53	28
14	36	131	184	385	123	107	184	887	80	92	50	27
15	36	125	181	275	120	96	165	344	77	87	48	27
16	183	118	172	242	119	125	150	264	76	85	47	26
17	79	115	163	233	117	131	137	224	81	95	47	30
18	70	109	144	189	114	107	128	220	95	106	43	37
19	66	106	138	177	104	103	122	292	153	93	41	29
20	163	101	199	166	120	101	116	401	5,490	90	40	26
21	1,360	96	166	170	195	105	138	301	2,150	90	40	25
22	2,550	91	147	198	134	321	283	280	639	94	40	24
23	1,610	89	138	185	128	169	196	365	438	79	38	24
24	980	106	133	166	145	140	159	288	346	74	60	25
25	531	99	127	155	196	135	144	240	290	73	60	25
26	391	91	121	140	317	128	134	211	251	76	54	24
27	308	96	114	137	206	167	126	190	223	69	50	27
28	253	91	117	155	167	191	119	176	219	76	42	29
29	214	128	108	140	157	204	113	166	210	93	37	34
30	192	118	121	131	------	185	109	171	184	91	35	96
31	465	------	124	124	------	184	------	166	------	72	34	------
TOTAL	10,053	6,151	6,748	6,231	4,016	4,496	4,834	7,120	12,440	3,277	1,604	990
MEAN	324	205	218	201	138	145	161	230	415	106	51.7	33.0
MAX	2,550	745	1,190	596	317	321	330	887	5,490	215	74	96
MIN	36	89	94	108	97	96	109	102	76	69	34	24
CFSM	7.47	4.72	5.02	4.63	3.18	3.34	3.71	5.30	9.56	2.44	1.19	.76
IN.	8.62	5.27	5.78	5.34	3.44	3.85	4.14	6.10	10.66	2.81	1.37	.85

CAL YR 1971 TOTAL 57,351.00 MEAN 157 MAX 2,550 MIN 36 CFSM 3.62 IN 49.16
WTR YR 1972 TOTAL 67,960.00 MEAN 186 MAX 5,490 MIN 24 CFSM 4.29 IN 58.25

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-22	0445	5.24	4,100	6-20	2200	9.87	13,900

03479000 Watauga River near Sugar Grove, N. C.

LOCATION.--Lat 36°14'18", long 81°49'22", Watauga County, on right bank 250 ft upstream from bridge on Secondary Road 1121, 300 ft downstream from Cove Creek, 2.3 miles southwest of Sugar Grove, and at mile 64.4.

DRAINAGE AREA.--90.8 sq mi.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,607.84 ft above mean sea level.

AVERAGE DISCHARGE.--33 years, 165 cfs (24.68 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,920 cfs June 20 (gage height, 9.71 ft); minimum, 34 cfs Sept. 22, 23, 24, 25, 26 (gage height, 1.54 ft).
Period of record: Maximum discharge, 50,800 cfs Aug. 13, 1940 (gage height, 29.6 ft, from profile based on floodmarks), from rating curve extended above 4,900 cfs on basis of slope-area measurement of peak flow; minimum, 6.5 cfs Jan. 1, 1954 (gage height, 1.13 ft), result of freezeup; minimum daily, 13 cfs Sept. 19, 30, 1954.
Flood of July 1916 reached a stage of 22.1 ft, from floodmarks on barn a quarter of a mile above station as witnessed by local resident (discharge, 28,000 cfs, from rating curve extended above 4,900 cfs on basis of slope-area measurement at gage height 29.6 ft).

REMARKS.--Records good. Slight diurnal fluctuation at low flow caused by small mills above station. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	459	123	116	143	266	241	130	140	137	124	42
2	84	673	109	134	145	278	255	145	129	115	144	40
3	68	729	109	127	188	349	231	419	122	106	115	39
4	62	479	123	175	187	275	226	369	117	101	97	42
5	60	330	123	213	308	248	209	275	115	147	91	196
6	72	263	302	196	189	214	192	227	110	106	86	115
7	58	229	806	169	166	202	208	202	111	93	101	67
8	54	194	492	146	152	192	438	216	101	88	88	56
9	58	176	325	153	136	170	320	220	99	82	73	52
10	69	163	260	232	129	161	269	182	96	82	67	46
11	60	148	221	276	126	152	248	164	90	76	67	44
12	55	138	196	265	139	145	527	153	83	75	68	43
13	52	129	187	271	441	140	465	161	80	75	62	41
14	52	122	164	346	304	145	351	657	80	76	59	40
15	50	116	156	269	267	132	287	381	75	137	57	39
16	128	111	149	468	242	158	249	282	72	176	64	38
17	81	106	143	380	227	187	218	239	255	161	56	37
18	66	102	128	201	214	165	191	221	117	220	67	40
19	60	101	123	175	324	155	177	247	104	176	89	39
20	67	98	152	163	1,050	144	170	246	1,690	133	91	36
21	148	94	140	173	796	145	230	282	2,590	124	62	35
22	1,030	90	127	191	449	386	266	270	779	108	56	35
23	861	84	118	192	371	258	246	316	428	97	52	35
24	1,180	92	118	167	334	216	212	269	308	84	48	35
25	523	92	114	158	384	203	194	231	245	80	54	35
26	322	92	112	143	722	191	176	201	207	76	65	34
27	243	105	108	144	624	202	162	178	181	99	67	42
28	199	111	107	189	412	214	152	164	174	99	54	37
29	170	149	104	180	314	222	145	155	169	266	47	88
30	150	159	123	170	------	222	137	166	152	179	44	101
31	236	------	133	154	------	235	------	165	------	144	43	------
TOTAL	6,379	5,934	5,695	6,336	9,483	6,372	7,392	7,533	9,019	3,718	2,258	1,569
MEAN	206	198	184	204	327	206	246	243	301	120	72.8	52.3
MAX	1,180	729	806	468	1,050	386	527	657	2,590	266	144	196
MIN	50	84	104	116	126	132	137	130	72	75	43	34
CFSM	2.27	2.18	2.03	2.25	3.60	2.27	2.71	2.68	3.32	1.32	.80	.58
IN.	2.61	2.43	2.33	2.60	3.89	2.61	3.03	3.09	3.70	1.52	.93	.64

CAL YR 1971 TOTAL 73,179 MEAN 200 MAX 1,180 MIN 50 CFSM 2.20 IN 29.98
WTR YR 1972 TOTAL 71,688 MEAN 196 MAX 2,590 MIN 34 CFSM 2.16 IN 29.37

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-20	2315	9.71	4,920				

03500000 Little Tennessee River near Prentiss, N. C.

LOCATION.--Lat 35°08'57", long 83°22'46", Macon County, on left bank 600 ft upstream from Owenby Branch, 0.5 mile upstream from Cartoogechaye Creek, 2 miles north of Prentiss, and at mile 119.5.

DRAINAGE AREA.--140 sq mi.

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,008.39 ft above mean sea level (levels by Tennessee Valley Authority). Since Oct. 1, 1954, auxiliary water-stage recorder 0.5 mile downstream from base gage at same datum.

AVERAGE DISCHARGE.--29 years, 377 cfs (36.57 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,570 cfs Dec. 7; maximum gage height, 7.02 ft Dec. 7; minimum discharge, 133 cfs Oct. 13, 14, 15 (gage height, 1.63 ft).
Period of record: Maximum discharge, 12,200 cfs Oct. 4, 1964; maximum gage height, 17.30 ft Oct. 4, 1964; minimum discharge, 65 cfs Oct. 16, 17, 1954 (gage height, 1.21 ft).
Flood in October 1898 reached a stage of about 15 ft, from profiles by Tennessee Valley Authority.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1236: 1949(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	279	240	370	394	366	493	269	295	380	352	183
2	154	474	225	406	406	410	453	262	281	339	352	190
3	152	571	258	393	495	472	430	455	273	319	345	180
4	148	462	340	949	482	406	428	482	264	305	293	176
5	148	366	535	1,080	426	386	402	370	257	390	269	191
6	150	323	1,330	713	422	362	386	328	248	312	354	191
7	143	300	2,190	598	477	353	378	309	258	285	303	177
8	138	273	1,820	536	426	464	416	384	239	269	418	172
9	147	250	902	577	410	416	367	451	233	260	308	167
10	153	238	722	1,310	394	388	353	363	231	261	428	162
11	138	227	723	1,580	382	374	422	330	223	247	557	156
12	135	219	607	1,110	402	361	443	313	214	234	380	153
13	135	213	560	1,120	729	341	413	358	209	224	323	152
14	134	207	510	1,250	539	336	383	1,230	205	229	307	150
15	139	201	506	927	487	323	366	765	200	218	277	149
16	366	197	539	779	455	372	355	584	200	237	257	146
17	194	193	539	696	451	395	337	506	244	239	250	167
18	166	189	491	645	452	348	323	459	269	261	236	232
19	156	189	455	615	459	336	316	452	225	270	227	197
20	149	197	755	581	411	322	312	438	664	321	223	160
21	174	182	744	590	397	321	305	411	1,140	242	236	151
22	634	175	599	567	399	705	371	443	509	303	213	146
23	545	172	534	545	391	492	359	395	389	288	204	148
24	364	305	498	504	398	427	316	411	331	237	208	145
25	301	294	466	473	388	415	301	377	300	315	321	143
26	259	230	441	442	435	407	292	357	278	243	258	151
27	235	228	418	434	415	423	284	333	262	235	232	184
28	219	218	402	434	386	474	278	320	633	251	212	211
29	206	280	385	422	373	586	274	315	749	503	200	165
30	198	278	385	434	------	553	281	317	460	455	193	511
31	200	------	409	406	------	523	------	332	------	365	187	------
TOTAL	6,538	7,930	19,528	21,486	12,681	12,857	10,837	13,119	10,283	9,037	8,923	5,406
MEAN	211	264	630	693	437	415	361	423	343	292	288	180
MAX	634	571	2,190	1,580	729	705	493	1,230	1,140	503	557	511
MIN	134	172	225	370	373	321	274	262	200	218	187	143
CFSM	1.51	1.89	4.50	4.95	3.12	2.96	2.58	3.02	2.45	2.09	2.06	1.29
IN.	1.74	2.11	5.19	5.71	3.37	3.42	2.88	3.49	2.73	2.40	2.37	1.44

CAL YR 1971 TOTAL 146,251 MEAN 401 MAX 2,190 MIN 134 CFSM 2.86 IN 38.86
WTR YR 1972 TOTAL 138,625 MEAN 379 MAX 2,190 MIN 134 CFSM 2.71 IN 36.83

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 7	1800	7.02	2,570	6-21	0515	4.41	1,500
1-10	2200	4.86	1,660				

03500240 Cartoogechaye Creek near Franklin, N. C.

LOCATION.--Lat 35°09'31", long 83°23'39", Macon County, on downstream side of center pier of bridge on Secondary Road 1152, 0.1 mile downstream from unnamed creek, 1.8 miles south of Franklin, and 1.9 miles upstream from mouth.

DRAINAGE AREA.--57.1 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1947, 1953-55, 1960. June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,017.18 ft above mean sea level.

AVERAGE DISCHARGE.--11 years, 140 cfs (33.30 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,470 cfs Dec. 7 (gage height, 7.95 ft); minimum, 47 cfs Oct. 8, Sept. 15, 16 (gage height, 1.32 ft).
Period of record: Maximum discharge, 4,720 cfs Oct. 4, 1964 (gage height, 12.96 ft); minimum, 33 cfs Sept. 14, 1962, Aug. 30, 31, 1968.
Flood in June 1949 reached a stage of 15.6 ft, from studies by Tennessee Valley Authority (discharge about 7,000 cfs).
A discharge of 30.8 cfs was measured on Oct. 16, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	86	83	130	146	160	205	116	96	130	120	64
2	58	116	78	165	160	195	189	114	94	116	126	63
3	57	217	99	146	216	208	181	152	92	109	114	61
4	56	135	103	473	195	182	190	139	89	112	99	65
5	55	108	192	465	173	171	171	121	88	195	95	85
6	55	95	617	315	177	157	161	116	86	133	121	67
7	51	87	977	247	192	151	160	113	89	113	116	64
8	50	80	426	211	171	206	189	149	84	104	193	62
9	60	76	275	298	161	168	157	136	81	101	118	61
10	58	73	226	867	154	158	151	122	81	100	270	58
11	52	71	193	851	148	151	231	116	78	90	207	57
12	52	69	171	536	169	145	221	112	76	85	156	56
13	51	67	168	440	254	140	201	151	76	86	130	55
14	49	67	148	382	193	143	184	344	74	83	118	55
15	53	65	143	315	181	133	171	221	72	82	107	53
16	66	64	148	273	169	163	166	176	80	79	100	52
17	53	63	184	249	177	155	155	154	85	98	95	84
18	54	62	161	231	177	145	146	140	83	97	89	84
19	51	64	148	231	169	139	143	136	77	90	86	64
20	51	66	348	214	155	133	139	134	275	92	89	58
21	68	61	303	231	151	137	136	126	241	79	84	56
22	221	60	233	214	155	305	182	136	125	80	80	54
23	137	60	197	205	152	208	152	123	103	83	77	54
24	99	124	181	192	152	181	142	117	92	77	85	54
25	106	92	166	181	158	179	136	112	87	73	82	53
26	86	76	154	171	205	174	130	113	84	72	78	59
27	76	87	143	166	185	209	126	104	80	72	89	62
28	71	77	137	166	169	219	123	101	398	100	74	64
29	68	106	132	161	160	241	121	101	271	335	70	70
30	66	93	140	165	------	222	118	101	173	212	67	128
31	66	------	142	151	------	224	------	107	------	149	65	------
TOTAL	2,155	2,567	6,816	9,042	5,024	5,502	4,877	4,203	3,510	3,427	3,400	1,922
MEAN	69.5	85.6	220	292	173	177	163	136	117	111	110	64.1
MAX	221	217	977	867	254	305	231	344	398	335	270	128
MIN	49	60	78	130	146	133	118	101	72	72	65	52
CFSM	1.22	1.50	3.85	5.11	3.03	3.10	2.85	2.38	2.05	1.94	1.93	1.12
IN.	1.40	1.67	4.44	5.89	3.27	3.58	3.18	2.74	2.29	2.23	2.22	1.25

CAL YR 1971 TOTAL 55,276 MEAN 151 MAX 977 MIN 49 CFSM 2.64 IN 36.01
WTR YR 1972 TOTAL 52,445 MEAN 143 MAX 977 MIN 49 CFSM 2.50 IN 34.17

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 7	1215	7.95	1,470	8-10	1715	6.19	1,050
1-10	1500	7.37	1,330				

03503000 Little Tennessee River at Needmore, N. C.

LOCATION.--Lat 35°20'11", long 83°31'39", Swain County, on left bank 0.8 mile downstream from DeHart Creek, 0.8 mile north of Needmore, 2.4 miles downstream from Brush Creek, 6.3 miles downstream from Tellico Creek, and at mile 92.9.

DRAINAGE AREA.--436 sq mi.

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,761.19 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--29 years, 1,033 cfs (32.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,610 cfs Dec. 7 (gage height, 6.83 ft); minimum, 246 cfs Nov. 22 (gage height, 1.77 ft); minimum daily, 392 cfs Sept. 25.
Period of record: Maximum discharge, 22,100 cfs Oct. 5, 1964 (gage height, 12.87 ft in gage well, 13.06 ft from outside gage); minimum, 52 cfs Nov. 7, 8, 1954 (gage height, 1.16 ft); minimum daily, 71 cfs Nov. 7, 1954.
Floods of October 1898 and Aug. 30, 1940, reached stages of about 13 and 11.5 ft, respectively, from flood profiles by Tennessee Valley Authority.

REMARKS.--Records good. Considerable diurnal fluctuation caused by Porters Bend powerplant at Lake Emory 20 miles upstream. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	450	685	626	890	1,140	1,150	1,620	883	826	1,120	1,090	498
2	435	1,120	591	993	1,180	1,270	1,440	845	790	974	1,020	508
3	408	1,380	664	1,010	1,420	1,540	1,370	1,360	754	940	1,070	480
4	437	1,150	766	2,170	1,510	1,300	1,360	1,450	737	918	900	556
5	485	877	1,090	3,280	1,260	1,230	1,290	1,170	720	1,370	791	804
6	444	779	3,550	2,120	1,250	1,160	1,220	1,030	711	1,080	872	594
7	419	718	6,420	1,650	1,370	1,110	1,180	970	737	891	843	476
8	421	672	5,060	1,390	1,240	1,350	1,420	1,080	694	831	1,080	489
9	423	630	2,680	1,390	1,180	1,290	1,210	1,360	660	780	934	501
10	457	618	1,850	3,770	1,130	1,180	1,150	1,110	669	793	950	450
11	431	593	1,660	5,090	1,100	1,110	1,630	1,010	636	730	1,520	470
12	411	572	1,430	3,690	1,110	1,090	1,750	960	596	698	1,060	440
13	401	555	1,330	3,010	2,160	1,040	1,480	1,060	588	661	902	413
14	397	535	1,240	3,480	1,650	1,040	1,340	3,050	580	702	841	409
15	411	547	1,180	2,600	1,440	1,000	1,230	2,260	580	672	760	416
16	694	519	1,280	2,200	1,340	1,080	1,190	1,660	573	668	716	409
17	543	517	1,360	1,960	1,320	1,220	1,130	1,390	686	783	668	464
18	489	511	1,220	1,830	1,300	1,080	1,060	1,240	772	952	661	655
19	444	500	1,110	1,780	1,350	1,030	1,040	1,180	711	840	606	612
20	418	516	1,700	1,680	1,200	980	1,020	1,160	1,340	911	611	488
21	423	541	2,080	1,680	1,170	990	1,000	1,090	3,150	713	793	433
22	1,540	452	1,580	1,610	1,170	1,980	1,230	1,180	1,470	742	612	408
23	1,570	483	1,330	1,610	1,190	1,560	1,250	1,070	1,090	876	587	433
24	895	636	1,230	1,430	1,180	1,310	1,060	1,060	923	756	596	395
25	826	797	1,140	1,390	1,190	1,280	1,010	980	836	688	670	392
26	696	600	1,080	1,360	1,360	1,280	950	980	792	700	733	458
27	633	593	1,020	1,210	1,360	1,420	970	883	732	685	599	488
28	576	579	969	1,280	1,230	1,690	902	864	1,690	761	645	545
29	561	649	937	1,250	1,150	1,870	902	826	2,260	1,590	540	568
30	535	740	929	1,260	------	1,870	873	873	1,420	1,720	531	1,410
31	525	------	994	1,190	------	1,730	------	921	------	1,200	509	------
TOTAL	17,798	20,064	50,096	61,253	37,650	40,230	36,277	36,955	28,723	27,745	24,710	15,662
MEAN	574	669	1,616	1,976	1,298	1,298	1,209	1,192	957	895	797	522
MAX	1,570	1,380	6,420	5,090	2,160	1,980	1,750	3,050	3,150	1,720	1,520	1,410
MIN	397	452	591	890	1,100	980	873	826	573	661	509	392
CFSM	1.32	1.53	3.71	4.53	2.98	2.98	2.77	2.73	2.20	2.05	1.83	1.20
IN.	1.52	1.71	4.27	5.23	3.21	3.43	3.10	3.15	2.45	2.37	2.11	1.34

CAL YR 1971 TOTAL 406,434 MEAN 1,114 MAX 6,420 MIN 397 CFSM 2.56 IN 34.68
WTR YR 1972 TOTAL 397,163 MEAN 1,085 MAX 6,420 MIN 392 CFSM 2.49 IN 33.89

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	2000	6.83	7,610	1-10	2200	5.79	5,320

03504000 Nantahala River near Rainbow Springs, N. C.

LOCATION.--Lat 35°07'35", long 83°37'11", Macon County, on right bank on Nantahala Forest Service Road 437, 300 ft upstream from Roaring Fork, 0.2 mile downstream from Buck Creek, 5 miles downstream from town of Rainbow Springs, and at mile 34.3.

DRAINAGE AREA.--51.9 sq mi.

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,072.97 ft above mean sea level.

AVERAGE DISCHARGE.--32 years, 198 cfs (51.81 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,980 cfs Dec. 7 (gage height, 4.61 ft); minimum, 65 cfs Oct. 14, 15; minimum gage height, 0.85 ft Sept. 25, 26.
Period of record: Maximum discharge, 6,300 cfs June 16, 1949 (gage height, 9.70 ft), from rating curve extended above 3,000 cfs on basis of slope-area measurement of peak flow; minimum, 33 cfs Nov. 18, 19, 1953 (gage height, 0.60 ft).

REMARKS.--Records good. Occasional slight diurnal fluctuation at low flow caused by small ponds on tributaries above station.

REVISIONS (WATER YEARS).--WSP 973: 1941(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	143	111	222	232	242	296	167	141	174	202	100
2	76	174	107	297	239	320	278	167	136	165	258	97
3	75	353	128	252	308	312	270	282	134	155	209	93
4	74	200	168	732	256	270	293	239	131	171	185	95
5	73	166	267	697	239	256	260	196	127	350	193	109
6	77	150	832	503	253	235	246	184	124	205	218	94
7	70	138	1,260	408	289	225	256	179	124	183	214	90
8	69	127	648	355	246	332	296	242	117	164	261	88
9	85	121	450	518	232	249	246	212	115	179	227	85
10	77	115	371	1,060	222	239	235	190	113	167	251	82
11	70	111	323	1,080	215	225	360	179	108	147	240	81
12	68	107	282	796	260	218	356	173	106	138	207	79
13	67	103	263	719	332	209	324	270	104	134	194	78
14	66	100	236	615	256	215	296	470	99	130	178	76
15	80	98	245	520	249	196	274	316	95	128	166	75
16	96	96	275	461	239	263	274	270	108	145	161	75
17	72	94	318	420	256	242	249	249	131	234	154	122
18	69	92	264	392	246	222	235	232	129	200	146	125
19	67	111	244	380	228	215	225	222	108	174	140	85
20	68	104	712	356	235	202	218	215	571	153	134	77
21	136	91	493	425	209	253	209	202	352	142	132	74
22	330	88	388	368	228	495	282	202	202	145	127	74
23	180	87	338	340	225	312	222	187	170	138	124	75
24	137	184	306	320	239	278	209	182	151	130	124	72
25	123	125	279	300	263	274	199	176	141	127	150	70
26	108	110	259	282	312	260	193	170	134	122	131	85
27	101	117	241	267	274	316	187	162	170	125	133	115
28	97	107	235	267	249	348	182	157	342	189	115	99
29	93	143	220	263	235	380	176	157	247	444	110	95
30	90	119	257	267	------	332	176	151	201	285	105	160
31	92	------	235	239	------	328	------	159	------	226	101	------
TOTAL	2,963	3,874	10,755	14,121	7,266	8,463	7,522	6,559	4,931	5,569	5,290	2,725
MEAN	95.6	129	347	456	251	273	251	212	164	180	171	90.8
MAX	330	353	1,260	1,080	332	495	360	470	571	444	261	160
MIN	66	87	107	222	209	196	176	151	95	122	101	70
CFSM	1.84	2.49	6.69	8.79	4.84	5.26	4.84	4.08	3.16	3.47	3.29	1.75
IN.	2.12	2.78	7.71	10.12	5.21	6.07	5.39	4.70	3.53	3.99	3.79	1.95

CAL YR 1971 TOTAL 84,074 MEAN 230 MAX 1,260 MIN 66 CFSM 4.43 IN 60.26
WTR YR 1972 TOTAL 80,038 MEAN 219 MAX 1,260 MIN 66 CFSM 4.22 IN 57.37

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0645	4.61	1,980	1-10	1215	3.98	1,550

03505500 Nantahala River at Nantahala, N. C.

LOCATION.--Lat 35°17'55", long 83°39'22", Swain County, on left bank on U. S. Highway 19, 1.0 mile northeast of Nantahala, 2.3 miles downstream from Rowlin Creek, 2.8 miles downstream from Nantahala Dam powerhouse, and at mile 10.8.

DRAINAGE AREA.--144 sq mi.

PERIOD OF RECORD.--May 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,894.68 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--30 years, 486 cfs (45.83 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,720 cfs Jan. 10 (gage height, 4.45 ft); minimum, 32 cfs Oct. 14 (gage height, 1.48 ft); minimum daily, 34 cfs Oct. 4.
Period of record: Maximum discharge, 7,510 cfs Feb. 10, 1946 (gage height, 8.15 ft); minimum, 16 cfs Nov. 9, 1953, Dec. 16, 1958; minimum gage height, 1.19 ft Nov. 9, 1953; minimum daily discharge, 17 cfs Nov. 8, 16, 1952, Oct. 25, 1953.

REMARKS.--Records good. Flow regulated by Nantahala Lake 12 miles upstream (see p. 185) and Queens Creek Lake (capacity, about 300 cfs-days). Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	481	379	388	648	761	596	807	540	484	487	521	485
2	466	425	492	622	766	596	794	539	488	291	620	484
3	42	658	448	408	794	611	783	571	268	440	611	76
4	34	625	635	690	782	591	793	578	164	449	587	528
5	49	621	110	713	773	571	776	550	456	543	569	537
6	47	484	530	842	777	566	770	519	483	548	512	499
7	40	402	866	806	781	561	776	108	466	569	506	547
8	46	530	539	637	773	621	756	549	463	557	492	500
9	38	619	301	512	767	620	775	530	502	467	503	438
10	36	618	222	1,040	761	591	767	553	386	507	534	150
11	38	622	268	1,230	752	579	897	533	283	547	597	423
12	38	617	283	1,030	767	566	856	546	466	493	613	464
13	37	457	469	1,030	651	558	823	535	474	529	567	416
14	38	349	501	1,050	615	658	800	746	463	439	528	430
15	429	458	430	961	698	574	785	707	471	412	569	414
16	431	400	453	899	642	590	779	764	493	96	562	436
17	37	381	433	865	531	753	769	595	413	406	565	427
18	434	382	629	841	543	696	762	598	315	460	561	478
19	445	417	465	945	682	551	757	584	435	456	547	344
20	439	469	426	832	491	558	751	566	517	408	516	427
21	448	394	587	935	600	595	753	148	493	415	486	420
22	269	451	700	820	547	706	855	549	448	410	498	439
23	336	412	674	809	770	783	797	568	434	442	487	426
24	49	402	664	801	765	773	779	564	403	419	494	254
25	416	413	529	800	579	599	773	497	212	431	486	449
26	390	398	501	786	729	753	562	534	391	439	481	498
27	154	452	505	777	583	640	534	495	416	434	82	468
28	375	421	562	790	547	660	545	93	548	421	456	467
29	359	410	552	779	544	700	536	467	552	549	475	424
30	371	411	564	776	------	682	562	476	516	210	475	745
31	36	------	581	765	------	663	------	492	------	510	485	------
TOTAL	6,848	14,068	15,307	25,439	19,771	19,561	22,472	16,094	12,903	13,804	15,985	13,093
MEAN	221	469	494	821	682	631	749	519	430	445	516	436
MAX	481	658	866	1,230	794	783	897	764	552	569	620	745
MIN	34	349	110	408	491	551	534	93	164	96	82	76
(†)	+529.7	-5,412.1	+6,750.4	+6,865.5	-1,316.1	+1,411.6	-2,494.6	+546.9	-578.0	+1,098.9	-1,955.5	-3,985.9
MEAN‡	238	289	712	1,042	636	677	666	537	411	481	453	304
CFSM‡	1.65	2.01	4.94	7.24	4.42	4.70	4.63	3.73	2.85	3.34	3.15	2.11
IN.‡	1.91	2.24	5.70	8.34	4.77	5.42	5.16	4.30	3.18	3.85	3.62	2.35

CAL YR 1971 TOTAL 183,422 MEAN 503 MAX 986 MIN 34 MEAN‡ 555 CFSM‡ 3.85 IN.‡ 52.30
WTR YR 1972 TOTAL 195,345 MEAN 534 MAX 1,230 MIN 34 MEAN‡ 538 CFSM‡ 3.74 IN.‡ 50.83

† Change in contents, in cfs-days, in Nantahala and Queens Creek Lakes; furnished by Tennessee Valley Authority and Nantahala Power and Light Co.
‡ Adjusted for change in contents in Nantahala and Queens Creek Lakes.

03508000 Tuckasegee River at Tuckasegee, N. C.

LOCATION.--Lat 35°16'55", long 83°07'37", Jackson County, on right bank 0.9 mile north of Tuckasegee, 1.1 miles downstream from bridge on State Highway 107 and West Fork Tuckasegee River, 10.8 miles downstream from Thorpe Dam, and at mile 48.5.

DRAINAGE AREA.--143 sq mi.

PERIOD OF RECORD.--June 1934 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,125.16 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--38 years, 392 cfs (37.23 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 4,730 cfs Dec. 7 (gage height, 7.31 ft); minimum, 10 cfs Sept. 24 (gage height, 0.66 ft); minimum daily, 22 cfs Oct. 3, 17.
Period of record: Maximum discharge, 40,800 cfs Aug. 30, 1940 (gage height, 21.1 ft, from floodmarks), from rating curve extended above 13,500 cfs on basis of slope-area measurements at gage heights 14.3 and 21.1 ft; minimum, 5.2 cfs Sept. 3, 1956 (gage height, 0.54 ft); minimum daily, 6.4 cfs Oct. 7, 1956.
Maximum stage observed since at least 1840, that of Aug. 30, 1940, from studies by Tennessee Valley Authority.

REMARKS.--Records good. Flow regulated by Thorpe Reservoir, Cedar Cliff Lake, Bear Creek Lake, and Tennessee Creek project lakes (see pp. 185,187).

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 1053: 1943.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	603	302	563	507	398	252	284	293	434	399	449
2	34	612	443	504	356	677	121	350	464	76	342	141
3	22	791	450	448	553	736	678	872	51	456	262	36
4	237	627	759	531	542	701	458	502	129	150	450	95
5	207	399	191	827	397	672	352	384	304	314	137	288
6	190	458	865	833	85	539	405	221	359	447	142	305
7	196	500	1,970	552	494	647	526	399	291	536	475	282
8	101	655	1,140	395	468	221	487	546	429	145	342	273
9	26	563	790	164	378	225	237	282	444	49	448	176
10	27	265	697	904	385	204	566	265	187	456	361	72
11	256	553	651	951	481	157	615	532	132	288	478	267
12	204	464	610	930	247	146	526	345	274	303	253	317
13	157	153	790	986	722	136	421	179	275	533	183	267
14	125	284	759	963	553	194	314	694	289	417	276	318
15	401	420	687	853	492	242	220	478	371	170	276	469
16	497	145	551	900	391	545	100	539	460	58	279	217
17	22	272	596	690	450	793	408	513	233	493	279	389
18	231	269	623	598	480	284	418	489	142	431	423	345
19	155	450	586	481	600	71	320	504	525	324	208	165
20	157	273	421	644	207	448	417	356	899	335	67	171
21	278	163	405	344	547	397	491	220	1,060	499	270	167
22	800	284	517	456	526	721	148	510	833	207	275	178
23	649	338	399	553	459	401	61	513	763	332	282	114
24	401	501	415	516	466	631	270	427	436	282	278	74
25	320	453	514	420	405	276	308	507	439	335	423	190
26	346	322	324	518	302	201	372	548	493	365	164	201
27	285	241	531	518	281	599	346	76	472	427	41	188
28	213	198	601	348	506	640	468	46	654	431	295	444
29	458	437	503	589	307	615	195	50	616	342	276	346
30	538	272	507	550	------	519	65	508	607	138	278	754
31	388	------	555	503	------	428	------	592	------	434	301	------
TOTAL	8,062	11,965	19,152	19,032	12,589	13,464	10,565	12,731	12,923	10,211	9,014	7,688
MEAN	260	399	618	614	434	434	352	411	431	329	291	256
MAX	800	791	1,970	986	722	793	678	872	1,060	536	478	754
MIN	22	145	191	164	85	71	61	46	51	49	41	36
(†)	+746	-1,580	+3,310	+2,243	+25	+291	+987	+1,169	-538	-515	-2,169	-2,281
MEAN‡	284	346	725	686	435	444	385	448	413	313	221	180
CFSM‡	1.99	2.42	5.07	4.80	3.04	3.10	2.69	3.13	2.89	2.19	1.55	1.26
IN.‡	2.29	2.70	5.84	5.53	3.28	3.58	3.00	3.61	3.22	2.52	1.78	1.41

CAL YR 1971 TOTAL 143,730 MEAN 394 MAX 1,970 MIN 22 MEAN‡ 421 CFSM‡ 2.94 IN.‡ 39.99
WTR YR 1972 TOTAL 147,396 MEAN 403 MAX 1,970 MIN 22 MEAN‡ 407 CFSM‡ 2.85 IN.‡ 38.77

† Change in contents, in cfs-days, in Thorpe Reservoir, Cedar Cliff, Bear Creek, and Tennessee Creek project lakes; furnished by Tennessee Valley Authority and Nantahala Power and Light Co.
‡ Adjusted for change in contents in Thorpe Reservoir, Cedar Cliff, Bear Creek, and Tennessee Creek project lakes.

03509000 Scott Creek above Sylva, N. C.

LOCATION.--Lat 35°23'02", long 83°12'51", Jackson County, on right bank 100 ft downstream from bridge on Secondary Road 1431, 800 ft downstream from Allens Branch, 0.7 mile upstream from Cope Creek, 0.8 mile upstream from Sylva, and 3.3 miles upstream from mouth.

DRAINAGE AREA.--50.7 sq mi.

PERIOD OF RECORD.--June 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,056.42 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--31 years, 111 cfs (29.73 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,280 cfs July 17 (gage height, 8.05 ft); minimum, 37 cfs Sept. 26 (gage height, 2.76 ft).
Period of record: Maximum discharge, 2,530 cfs Apr. 7, 1964 (gage height, 8.6 ft, from highwater profile); minimum, 8.0 cfs Sept. 22, 23, 1941 (gage height, 1.30 ft); minimum daily, 22 cfs Sept. 19, 29, 30, Oct. 4, 1954.
Flood of Aug. 30, 1940, reached a stage of 8.6 ft, from floodmarks (discharge, about 3,200 cfs) from rating curve extended above 1,800 cfs.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1053: 1942-44(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	82	56	101	121	171	198	112	102	90	89	49
2	51	64	53	148	130	193	182	112	96	94	86	48
3	50	170	77	119	173	190	173	173	95	86	80	48
4	48	84	75	278	139	167	189	147	93	95	74	59
5	64	71	99	237	129	159	169	125	92	151	71	121
6	56	66	179	186	132	147	161	119	101	100	73	57
7	47	65	482	162	139	142	197	119	97	89	136	51
8	45	56	198	145	125	172	243	159	87	84	145	50
9	60	57	146	206	121	142	182	136	86	82	89	52
10	53	56	131	445	119	137	171	124	85	78	91	47
11	47	54	121	487	116	132	251	120	81	74	98	45
12	45	53	110	336	133	127	208	116	79	71	167	44
13	44	52	108	349	175	124	192	147	78	69	86	43
14	44	50	96	322	140	124	180	214	75	68	79	42
15	46	50	98	264	137	117	167	176	74	69	72	42
16	67	49	100	223	132	146	163	148	79	81	69	41
17	47	48	114	206	144	136	153	139	83	357	68	117
18	45	47	96	191	142	124	145	131	82	204	66	64
19	44	49	91	187	132	122	140	138	75	129	65	52
20	45	48	200	173	129	119	136	147	166	107	70	45
21	48	45	145	187	123	133	134	136	135	96	68	42
22	171	44	124	177	140	235	216	187	85	90	63	41
23	75	44	113	166	137	158	151	148	78	98	61	41
24	65	91	107	154	153	145	138	137	73	86	62	40
25	62	59	101	153	182	151	132	128	71	82	68	40
26	56	52	96	140	263	151	126	123	69	76	68	47
27	52	57	91	136	207	196	123	116	89	76	60	86
28	51	52	93	140	182	194	119	114	159	92	56	66
29	49	82	91	137	168	229	117	113	156	158	53	92
30	49	62	126	134	------	197	114	111	109	125	51	230
31	55	------	109	124	------	224	------	111	------	100	50	------
TOTAL	1,731	1,861	3,826	6,413	4,265	4,904	4,970	4,226	2,834	3,257	2,374	1,842
MEAN	55.8	62.0	123	207	147	158	166	136	94.5	105	76.6	61.4
MAX	171	170	482	487	263	235	251	214	166	357	145	230
MIN	44	44	53	101	118	117	114	111	69	68	50	40
CFSM	1.10	1.22	2.43	4.08	2.90	3.12	3.27	2.68	1.86	2.07	1.51	1.21
IN.	1.27	1.37	2.81	4.71	3.13	3.60	3.65	3.10	2.08	2.39	1.74	1.35

CAL YR 1971 TOTAL 45,236 MEAN 124 MAX 542 MIN 44 CFSM 2.45 IN 33.19
WTR YR 1972 TOTAL 42,503 MEAN 116 MAX 487 MIN 40 CFSM 2.29 IN 31.19

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0745	6.18	1,170	7-17	1630	8.05	2,280

03510500 Tuckasegee River at Dillsboro, N. C.

LOCATION.--Lat 35°21'59", long 83°15'38", Jackson County, on left bank on Secondary Road 1377, 0.4 mile downstream from Scott Creek, 0.5 mile downstream from bridge on U. S. Highway 23 at Dillsboro, and at mile 31.1.

DRAINAGE AREA.--347 sq mi.

PERIOD OF RECORD.--June 1928 to current year (prior to October 1933 monthly discharge only, published in WSP 1306; figures of daily discharge published in WSP 663, 683, 698, 713, 728, 743, are unreliable).

GAGE.--Water-stage recorder. Datum of gage is 1,950.15 ft above mean sea level (levels by Tennessee Valley Authority). Prior to May 24, 1934, nonrecording gage at site below Scott Creek 0.4 mile upstream at datum 7.27 ft higher.

AVERAGE DISCHARGE.--44 years, 769 cfs (30.10 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 5,640 cfs Dec. 7 (gage height, 7.86 ft); minimum, 130 cfs Oct. 21 (gage height, 2.12 ft); minimum daily, 212 cfs Oct. 3.
Period of record: Maximum discharge, 52,600 cfs Aug. 30, 1940 (gage height, 21.96 ft, from floodmarks), from rating curve extended above 8,400 cfs on basis of slope-area measurement and computation of peak flow over dam; minimum, 35 cfs Sept. 17, 1953 (gage height, 1.60 ft); minimum daily, 107 cfs Sept. 19, 1954.
Flood in May 1840 was approximately equal to that of Aug. 30, 1940, from studies by Tennessee Valley Authority.

REMARKS.--Records good. Considerable diurnal fluctuation caused by Dillsboro powerplant 0.7 mile above station. Flow partly regulated by Thorpe Reservoir 28 miles upstream (see p. 185), and by Cedar Cliff Lake, Bear Creek Lake, and Tennessee Creek project lakes (see p. 187).

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 923: 1940(M). WSP 1306: 1929-33. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	331	926	524	961	935	812	1,020	618	719	858	719	542
2	318	895	505	957	934	1,210	791	729	675	486	739	396
3	212	1,330	717	814	999	1,340	1,080	1,390	589	576	569	301
4	320	1,100	1,060	1,370	1,060	1,230	1,170	1,210	373	584	612	226
5	436	688	720	1,570	985	1,230	970	859	628	839	465	570
6	419	647	1,470	1,460	611	954	884	662	593	681	404	503
7	354	702	3,460	1,090	801	1,190	1,010	754	743	856	695	455
8	338	986	2,020	967	1,060	845	1,490	1,160	670	544	715	451
9	279	704	1,410	774	807	707	898	842	750	411	634	358
10	234	593	1,220	2,170	795	665	1,000	696	569	524	648	320
11	359	660	1,130	2,700	792	646	1,420	778	424	673	750	350
12	403	723	1,010	2,180	791	548	1,380	859	544	552	610	472
13	283	391	1,150	2,060	1,270	596	1,050	734	548	658	402	423
14	334	431	1,160	2,090	1,110	623	980	1,240	557	727	546	467
15	376	573	1,050	1,740	967	663	811	1,190	629	482	499	498
16	984	507	916	1,660	964	828	739	908	654	421	491	494
17	291	455	1,040	1,460	960	1,260	854	1,030	580	969	489	595
18	307	451	979	1,340	887	830	945	947	487	941	591	618
19	322	494	956	1,060	1,100	554	837	915	662	741	428	351
20	352	588	1,050	1,250	787	716	864	1,070	1,410	629	385	328
21	338	372	902	1,090	868	821	948	637	1,740	650	401	320
22	1,470	467	951	933	982	1,410	957	937	1,180	553	484	333
23	1,020	478	819	1,160	995	1,050	618	1,060	1,090	581	474	314
24	844	716	802	1,000	904	999	718	908	831	617	508	232
25	483	753	940	975	953	914	750	902	661	602	586	281
26	546	626	667	939	1,020	779	837	957	732	557	463	361
27	533	378	773	989	896	1,070	794	668	761	691	343	422
28	420	505	934	974	943	1,390	840	429	1,190	744	390	580
29	530	627	849	888	909	1,380	691	432	1,050	831	462	577
30	786	601	910	1,110	------	1,200	561	693	979	773	447	1,320
31	595	------	919	879	------	1,230	------	1,080	------	622	471	------
TOTAL	14,817	19,367	33,013	40,610	27,085	29,695	27,907	27,294	23,018	20,373	16,420	13,452
MEAN	478	646	1,065	1,310	934	958	930	880	767	657	530	448
MAX	1,470	1,330	3,460	2,700	1,270	1,410	1,490	1,390	1,740	969	750	1,320
MIN	212	372	505	774	611	548	561	429	373	411	343	220

CAL YR 1971 TOTAL 296,415 MEAN 812 MAX 3,460 MIN 212 CFSM 2.34 IN 31.77
WTR YR 1972 TOTAL 293,051 MEAN 801 MAX 3,460 MIN 212 CFSM 2.31 IN 31.41

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	1330	7.86	5,640				

03512000 Oconaluftee River at Birdtown, N. C.

LOCATION.--Lat 35°27'42", long 83°21'13", Swain County, in Cherokee Indian Reservation, on left bank 200 ft upstream from bridge on Secondary Road 1359, 0.5 mile south of Birdtown, 0.6 mile downstream from Adams Creek, 0.6 mile upstream from Goose Creek, 2.2 miles southwest of Cherokee, and at mile 3.1.

DRAINAGE AREA.--184 sq mi.

PERIOD OF RECORD.--July 1945 to September 1946, July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,843.30 ft above mean sea level. Prior to Oct. 1, 1946, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 504 cfs (37.20 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,420 cfs Dec. 7 (gage height, 6.12 ft); minimum, 156 cfs Sept. 25, 26 (gage height, 1.12 ft).
Period of record: Maximum discharge, 15,900 cfs Dec. 30, 1969 (gage height, 12.46 ft, from floodmarks); minimum, 80 cfs Oct. 19, 1954 (gage height, 0.66 ft).
Floods of Nov. 19, 1906 and Mar. 27, 1913 reached stages of 18 and 14.5 ft, respectively (discharge not determined), from studies by Tennessee Valley Authority.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178	241	255	441	518	883	949	459	379	365	399	177
2	178	245	240	882	536	1,040	953	445	360	340	430	173
3	179	1,250	295	746	637	1,170	783	579	346	365	413	170
4	171	544	316	1,320	546	861	809	621	334	334	349	206
5	179	407	383	1,660	507	781	738	484	323	812	318	397
6	216	359	799	1,220	515	690	686	450	321	517	297	238
7	187	333	2,660	954	517	643	686	432	364	401	297	195
8	171	301	1,160	805	474	745	814	554	307	351	440	184
9	188	288	790	934	461	628	674	550	298	324	361	207
10	198	278	720	2,210	448	591	639	483	303	318	465	180
11	175	264	692	2,250	442	563	1,020	454	285	293	458	174
12	169	253	584	1,680	476	541	1,510	436	274	270	440	169
13	164	245	590	1,930	723	526	984	519	267	270	382	166
14	164	237	506	2,150	573	553	806	1,120	263	292	349	164
15	160	230	494	1,550	554	504	715	848	258	272	321	165
16	282	225	531	1,200	536	644	683	689	251	284	300	160
17	198	221	617	1,030	563	668	631	615	322	364	284	270
18	185	215	553	901	547	574	558	558	272	394	268	255
19	173	218	499	867	518	550	523	522	255	372	255	193
20	167	223	934	775	505	539	500	508	471	307	273	174
21	169	205	820	832	483	563	500	645	836	316	244	166
22	838	199	697	760	557	1,300	1,240	1,090	389	295	233	161
23	434	196	613	728	569	847	887	739	324	332	229	161
24	322	282	564	672	589	740	739	637	293	296	224	161
25	288	249	517	672	985	718	665	557	275	257	220	159
26	312	218	476	608	2,030	664	608	508	260	263	224	165
27	263	234	444	580	1,370	806	562	473	246	250	207	491
28	238	225	429	658	1,020	1,120	527	447	336	277	207	473
29	223	305	413	624	895	1,320	502	429	582	467	195	457
30	212	307	494	581	------	1,130	480	414	528	733	186	1,700
31	208	------	509	540	------	1,090	------	440	------	530	180	------
TOTAL	7,189	8,997	19,594	32,760	19,094	23,992	22,271	17,705	10,322	11,261	9,448	8,111
MEAN	232	300	632	1,057	658	774	742	571	344	363	305	270
MAX	838	1,250	2,660	2,250	2,030	1,320	1,510	1,120	836	812	465	1,700
MIN	160	196	240	441	442	504	480	414	246	250	180	159
CFSM	1.26	1.63	3.43	5.74	3.58	4.21	4.03	3.10	1.87	1.97	1.66	1.47
IN.	1.45	1.82	3.96	6.62	3.86	4.85	4.50	3.58	2.09	2.28	1.91	1.64

CAL YR 1971 TOTAL 202,882 MEAN 556 MAX 2,840 MIN 160 CFSM 3.02 IN 41.02
WTR YR 1972 TOTAL 190,744 MEAN 521 MAX 2,660 MIN 159 CFSM 2.83 IN 38.56

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0930	6.12	5,420				

03513000 Tuckasegee River at Bryson City, N. C.

LOCATION.--Lat 35°25'40", long 83°26'50", Swain County, on left bank 400 ft downstream from bridge on Secondary Road 1364, Everett Street, in Bryson City, 0.6 mile downstream from Deep Creek, and at mile 12.6.

DRAINAGE AREA.--655 sq mi.

PERIOD OF RECORD.--October 1897 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,714.54 ft above mean sea level (levels by Tennessee Valley Authority). Nov. 7, 1897, to Feb. 2, 1914, and May 18, 1920, to June 27, 1927, nonrecording gage at bridge 400 ft upstream at datum 2.00 ft higher. Feb. 3, 1914, to May 17, 1920, water-stage recorder at site 200 ft upstream at datum 2.00 ft higher. June 28, 1927, to Sept. 30, 1960, water-stage recorder at present site at datum 2.00 ft higher.

AVERAGE DISCHARGE.--75 years, 1,566 cfs (32.47 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 10,000 cfs Dec. 7 (gage height, 7.10 ft); minimum, 380 cfs Oct. 13; minimum gage height, 1.48 ft Sept. 25; minimum daily discharge, 444 cfs Oct. 11.
Period of record: Maximum discharge, 61,600 cfs Aug. 30, 1940 (gage height, 15.96 ft, datum then in use), from rating curve extended above 28,000 cfs on basis of slope-area measurement of peak flow; minimum, 27 cfs Sept. 10, 1925, minimum gage height, 0.47 ft Oct. 26, 1952, datum then in use; minimum daily discharge, 31 cfs Sept. 9, 10, 1925, caused by filling reservoir on Oconaluftee River; minimum daily during normal regulation, 186 cfs Oct. 13, 1925.
Floods of May 1840, Mar. 6, 1867, and June 1876 reached stages of 22, 19, and 19 ft, respectively, present site and datum (discharge not determined), from studies by Tennessee Valley Authority. The flood in May 1840 exceeded all other observed floods at this location.

REMARKS.--Records good. Considerable diurnal fluctuation caused by powerplants above station. Flow regulated by Thorpe Reservoir, Cedar Cliff Lake, Bear Creek Lake, Tennessee Creek project lakes (see pp. 185,187), and two small reservoirs with combined capacity of 250 cfs-days. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 523: 1916, 1918-20. WSP 823: Drainage area. WSP 1306: 1898-1913. WSP 1336: 1907, 1915(M), 1916-20, 1921-29(M), 1933-34(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	722	1,210	877	1,590	1,800	2,130	2,700	1,360	1,430	1,520	1,420	749
2	557	1,240	763	2,350	1,780	2,760	2,250	1,500	1,270	1,230	1,380	887
3	457	2,950	1,110	2,000	2,010	3,170	2,250	2,240	1,330	1,070	1,350	564
4	445	1,920	1,480	3,350	2,040	2,620	2,530	2,420	916	1,220	1,060	479
5	673	1,300	1,420	4,260	1,880	2,460	2,250	1,710	1,040	1,900	1,190	1,070
6	756	1,100	2,360	3,500	1,570	2,060	2,020	1,490	1,130	1,470	862	912
7	632	1,150	6,720	2,620	1,560	2,230	2,050	1,440	1,350	1,490	1,010	789
8	601	1,380	4,080	2,300	1,850	2,160	3,080	2,100	1,090	1,290	1,460	733
9	520	1,070	2,650	2,240	1,620	1,730	2,110	1,860	1,220	938	1,140	801
10	517	1,080	2,330	5,460	1,530	1,620	1,980	1,550	1,210	880	1,500	611
11	444	869	2,190	6,330	1,530	1,560	3,210	1,500	930	1,210	1,400	496
12	647	1,060	1,870	5,010	1,610	1,470	3,540	1,680	879	994	1,460	681
13	584	910	2,030	4,890	2,460	1,400	2,680	1,690	975	977	1,070	719
14	542	694	1,930	5,420	2,180	1,510	2,440	3,010	979	1,220	984	660
15	486	826	1,800	4,170	1,930	1,460	2,090	2,750	966	1,090	1,020	709
16	1,340	832	1,700	3,550	1,930	1,760	1,980	2,000	1,020	881	955	887
17	715	644	1,990	3,140	1,870	2,390	1,810	2,120	1,220	1,200	928	815
18	468	759	1,740	2,780	1,800	1,890	1,960	1,950	975	1,770	904	1,180
19	618	737	1,680	2,430	1,970	1,500	1,880	1,860	865	1,410	1,020	698
20	546	950	2,490	2,510	1,740	1,410	1,720	2,120	1,940	1,140	826	579
21	540	652	2,240	2,560	1,560	1,750	1,840	1,700	3,150	1,110	668	542
22	2,470	658	2,030	2,080	1,860	3,420	3,090	2,360	1,900	1,190	900	545
23	1,780	701	1,770	2,370	1,990	2,490	2,210	2,240	1,700	1,020	874	540
24	1,360	1,020	1,670	2,080	1,830	2,110	1,920	1,970	1,370	1,110	866	470
25	811	1,140	1,720	2,120	2,400	2,180	1,910	1,860	1,180	957	864	459
26	960	918	1,400	1,930	3,820	1,900	1,910	1,840	1,180	1,000	1,030	564
27	896	814	1,370	1,910	2,980	2,270	1,790	1,650	1,190	1,020	701	939
28	794	794	1,570	2,040	2,520	3,180	1,690	1,210	1,820	1,220	549	1,220
29	754	857	1,520	1,820	2,400	3,450	1,710	1,180	2,050	1,660	813	1,230
30	1,060	1,120	1,600	2,110	------	3,110	1,470	1,240	1,850	2,040	746	3,540
31	869	------	1,750	1,720	------	3,090	------	1,870	------	1,340	738	------
TOTAL	24,564	31,355	61,850	92,640	58,020	68,240	66,070	57,470	40,125	38,567	31,688	25,068
MEAN	792	1,045	1,995	2,988	2,001	2,201	2,202	1,854	1,338	1,244	1,022	836
MAX	2,470	2,950	6,720	6,330	3,820	3,450	3,540	3,010	3,150	2,040	1,500	3,540
MIN	444	644	763	1,590	1,530	1,400	1,470	1,180	865	880	549	459

CAL YR 1971 TOTAL 617,629 MEAN 1,692 MAX 6,720 MIN 444 CFSM 2.58 IN 35.07
WTR YR 1972 TOTAL 595,657 MEAN 1,627 MAX 6,720 MIN 444 CFSM 2.48 IN 33.82

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	1115	7.10	10,000				

03547000 Hiwassee River below Chatuge Dam, near Hayesville, N. C.

LOCATION.--Lat 35°01'45", long 83°47'45", Clay County, on left bank 1.2 miles (revised) downstream from bridge on Secondary Road 1146, 0.4 mile upstream from Hyatt Mill Creek, 1.6 miles southeast of Hayesville, 1.7 miles downstream from Chatuge Dam, and at mile 119.3.

DRAINAGE AREA.--190 sq mi.

PERIOD OF RECORD.--May 1907 to December 1909 (fragmentary), August 1922 to September 1923 (gage heights only), April 1942 to current year. Published as "near Hayesville" 1907-9, 1922-23.

GAGE.--Water-stage recorder. Datum of gage is 1,789.90 ft above mean sea level (levels by Tennessee Valley Authority). Prior to Apr. 1, 1942, nonrecording gage at site 1.1 miles upstream at different datum.

AVERAGE DISCHARGE.--30 years (1942-72), 435 cfs (31.09 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,610 cfs Aug. 23 (gage height, 5.62 ft); minimum, 1.9 cfs Oct. 7, 8 (gage height, 0.49 ft); minimum daily, 2.0 cfs Oct. 7.
Period of record: Maximum gage height recorded, 11.9 ft Mar. 13, 1909, site and datum then in use (discharge not determined); minimum discharge, 0.6 cfs Oct. 21, 1952; minimum gage height, 0.30 ft Aug. 3, 1942, Oct. 21, 1952.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow completely regulated by Chatuge Lake (see p. 186). Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1942.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	757	362	607	1,080	445	159	4.6	10	530	530	579	720
2	830	673	561	1,090	417	166	4.3	38	533	25	568	360
3	64	324	565	1,030	408	260	4.1	359	347	582	558	16
4	11	774	17	621	479	464	4.4	854	12	537	572	45
5	2.5	530	11	898	433	458	4.0	15	698	551	26	710
6	2.2	12	701	392	19	483	3.2	12	492	436	13	690
7	2.0	568	726	327	386	458	216	10	708	423	554	730
8	15	715	442	610	516	427	324	10	708	13	572	740
9	12	642	13	770	473	304	18	9.4	736	12	561	380
10	11	526	11	946	551	206	579	8.8	252	383	537	16
11	708	537	11	946	516	208	15	8.3	276	386	589	780
12	698	572	11	1,410	420	12	80	17	512	386	31	750
13	958	16	1,170	1,460	834	161	15	12	551	551	13	920
14	726	254	1,030	1,470	1,020	203	12	93	687	499	684	790
15	701	533	1,100	1,470	512	183	12	14	575	13	882	950
16	701	565	1,010	1,470	970	333	11	12	652	12	894	360
17	12	551	922	1,470	638	1,280	57	11	32	551	886	16
18	698	544	1,110	1,190	547	254	66	10	12	701	870	720
19	719	544	826	1,090	558	12	617	10	684	656	582	670
20	726	798	1,120	1,020	106	10	743	9.7	572	649	15	820
21	722	635	1,020	990	512	249	701	9.4	551	593	902	570
22	729	810	1,060	1,050	540	222	68	55	505	505	705	570
23	12	970	652	23	512	338	13	479	489	13	806	16
24	624	850	526	396	411	1,070	454	417	519	652	694	16
25	747	145	13	451	526	970	414	834	150	554	838	980
26	663	786	11	451	439	530	547	794	512	582	439	720
27	747	918	750	433	473	156	17	408	666	610	16	610
28	705	439	1,100	523	470	7.1	12	13	656	575	660	400
29	698	152	1,130	427	208	7.1	11	12	540	43	700	620
30	544	554	1,030	423	------	5.1	10	359	558	13	790	50
31	11	------	1,150	420	------	5.1	------	268	------	575	720	------
TOTAL	14,555.7	16,299	20,406	26,347	14,339	9,600.4	5,036.6	5,171.6	14,715	12,611	17,256	15,735
MEAN	470	543	658	850	494	310	168	167	491	407	557	525
MAX	958	970	1,170	1,470	1,020	1,280	743	854	736	701	902	980
MIN	2.0	12	11	23	19	5.1	3.2	8.3	12	12	13	16
(†)	-8,000	-8,900	+900	+800	+1,900	+9,900	+10,500	+9,900	-5,700	-2,800	-8,200	-9,100
MEAN‡	211	247	687	876	560	629	518	486	300	316	292	221
CFSM‡	1.11	1.30	3.62	4.61	2.95	3.31	2.73	2.56	1.58	1.66	1.54	1.16
IN.‡	1.28	1.45	4.17	5.31	3.18	3.82	3.04	2.95	1.76	1.92	1.77	1.30

CAL YR 1971 TOTAL 164,297.6 MEAN 450 MAX 1,170 MIN 2.0 MEAN‡ 453 CFSM‡ 2.38 IN.‡ 32.39
WTR YR 1972 TOTAL 172,072.3 MEAN 470 MAX 1,470 MIN 2.0 MEAN‡ 446 CFSM‡ 2.35 IN.‡ 31.96

† Change in contents, in cfs-days, in Chatuge Lake, furnished by Tennessee Valley Authority.
‡ Adjusted for change in lake contents.

NOTE.--No gage-height record Aug. 27 to Sept. 30.

03548500 Hiwassee River above Murphy, N. C.

LOCATION.--Lat 35°04'50", long 84°00'10", Cherokee County, on right bank on U. S. Highway 64, 600 ft upstream from Will Scott Creek, 2.0 miles southeast of Murphy, and at mile 99.1.

DRAINAGE AREA.--406 sq mi.

PERIOD OF RECORD.--June 1896 to August 1897 (gage heights only), October 1897 to current year. Published as "at Murphy" 1897-1940. Records published for both sites August 1939 to April 1940. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,538.23 ft above mean sea level (levels by Tennessee Valley Authority). Prior to Jan. 30, 1921, nonrecording gage at bridge 2.8 miles downstream at datum 30.40 ft lower. Jan. 30, 1921, to Nov. 8, 1926, nonrecording gage 2.8 miles downstream at datum 28.40 ft lower. Nov. 9, 1926, to Apr. 30, 1940, water-stage recorder 2.8 miles downstream at datum 28.20 ft lower.

AVERAGE DISCHARGE.--75 years (1897-1972), 907 cfs (30.34 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 7,840 cfs Jan. 10 (gage height, 8.92 ft); minimum, 120 cfs Oct. 8; minimum gage height, 2.22 ft Oct. 20, 30; minimum daily discharge, 123 cfs Oct. 8.
Period of record: Maximum discharge, 23,100 cfs Mar. 19, 1899 (gage height, 18.4 ft, from graph based on gage readings, site and datum then in use), from rating curve extended above 5,000 cfs; minimum daily, 10 cfs Dec. 3, 1924, result of freezeup and filling of Andrews Lake; minimum daily during normal regulation, 62 cfs Oct. 19, 1952.
Maximum stage observed is that of Mar. 19, 1899.

REMARKS.--Records good. Considerable diurnal fluctuion since 1924 caused by Mission powerplant at Andrews Dam 7 miles upstream (normal regulated storage, about 75 cfs-days). Flow regulated since 1942 by Chatuge Lake 22 miles upstream (see p. 186). Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 583: 1899(M). WSP 973: Drainage area. WSP 1003: 1943. WSP 1306: 1901-2, 1904-17, 1919(M), 1922(M), 1924-26(M). WSP 1706: 1899, 1907.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,020	158	841	1,500	927	517	822	407	658	889	1,750	658
2	989	964	882	1,540	928	794	724	416	874	485	1,380	943
3	665	969	1,030	1,560	995	1,140	675	936	773	670	1,310	322
4	161	1,080	881	2,410	1,200	1,090	690	1,200	499	720	1,320	212
5	154	871	422	2,790	1,320	934	624	828	636	1,650	675	678
6	157	451	815	1,830	712	1,210	586	434	849	904	447	840
7	140	475	2,050	1,240	890	1,000	590	417	1,060	792	605	988
8	123	903	1,170	983	1,490	1,170	1,100	480	992	521	1,230	942
9	126	878	759	1,520	936	1,260	852	465	1,080	289	1,020	705
10	130	725	419	4,420	1,170	812	919	424	867	414	806	358
11	457	846	375	3,990	1,010	763	1,380	401	377	731	1,010	536
12	847	745	332	3,140	977	520	1,150	385	680	530	821	1,020
13	1,080	435	1,150	2,790	1,650	491	1,030	487	969	861	331	947
14	988	335	1,350	2,720	1,930	706	810	1,100	1,030	852	829	1,040
15	947	468	1,420	2,450	1,140	810	706	857	859	500	1,050	1,100
16	861	855	1,380	2,270	1,580	528	649	611	931	285	1,190	830
17	499	747	1,420	2,180	1,690	1,850	601	536	556	689	1,210	323
18	524	721	1,590	1,860	862	1,120	603	488	273	869	1,080	670
19	945	600	1,230	1,730	1,310	488	960	456	517	1,230	906	862
20	829	1,120	2,240	1,630	895	460	1,240	446	1,000	913	564	984
21	897	682	2,050	1,740	846	472	1,300	419	1,060	959	565	708
22	1,060	1,000	1,770	1,770	1,080	1,780	994	463	783	1,050	1,250	737
23	473	1,240	1,340	1,000	1,280	1,050	618	617	748	817	877	478
24	659	1,080	971	743	836	1,900	940	1,080	794	776	1,180	159
25	787	718	658	1,030	876	1,600	745	1,110	796	933	895	700
26	914	643	365	1,340	1,320	1,580	1,190	1,240	430	917	994	994
27	946	1,120	721	851	1,110	1,010	634	1,010	949	1,040	446	711
28	941	1,100	1,420	1,140	1,080	1,170	452	572	1,260	1,370	626	704
29	938	358	1,520	855	927	1,300	430	348	922	1,310	920	787
30	722	428	1,290	1,010	------	1,120	422	602	817	1,320	933	1,230
31	365	------	1,520	935	------	975	------	800	------	1,330	1,100	------
TOTAL	20,344	22,715	35,381	56,967	32,967	31,620	24,436	20,035	24,039	26,616	29,320	22,166
MEAN	656	757	1,141	1,838	1,137	1,020	815	646	801	859	946	739
MAX	1,080	1,240	2,240	4,420	1,930	1,900	1,380	1,240	1,260	1,650	1,750	1,230
MIN	123	158	332	743	712	460	422	348	273	285	331	159

CAL YR 1971 TOTAL 344,484 MEAN 944 MAX 3,450 MIN 123 MEAN† 947 CFSM† 2.33 IN.† 31.66
WTR YR 1972 TOTAL 346,606 MEAN 947 MAX 4,420 MIN 123 MEAN† 923 CFSM† 2.27 IN.† 30.94

† Adjusted for change in contents in Chatuge Lake.

03550000 Valley River at Tomotla, N. C.

LOCATION.--Lat 35°08'20", long 83°58'50", Cherokee County, on right bank 15 ft downstream from bridge on Secondary Road 1373 at Tomotla, 0.2 mile upstream from Rogers Creek, 4.7 miles northeast of Murphy, and at mile 6.6.

DRAINAGE AREA.--104 sq mi.

PERIOD OF RECORD.--June 1904 to December 1909, January 1914 to April 1917, October 1918 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,556.46 ft above mean sea level (levels by Tennessee Valley Authority). Prior to May 11, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--60 years (1904-9, 1914-16, 1919-72), 252 cfs (32.91 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,720 cfs Jan. 10 (gage height, 11.15 ft); minimum, 66 cfs Nov. 22, 23, 24; minimum gage height, 1.88 ft Sept. 26.
Period of record: Maximum discharge, 18,000 cfs Nov. 19, 1906 (gage height, 20.5 ft, from flood profile by Tennessee Valley Authority), from rating curve extended above 5,800 cfs on basis of slope-conveyance study; minimum, 12 cfs several times in August and September 1925 (gage height, 0.52 ft).
Flood of September 1898 reached a stage of 21.2 ft, from floodmark by Tennessee Valley Authority (discharge, about 20,000 cfs).

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 503: 1905-9, 1915-17. WSP 823: Drainage area. WSP 1306: 1917(M), 1920(M), 1922(M), 1925(M), 1930(M), 1933(M). WSP 1626: 1907(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	73	83	178	278	312	540	264	165	146	509	88
2	76	80	79	446	289	393	472	255	158	135	424	88
3	75	183	290	364	435	447	435	352	151	142	348	86
4	73	107	210	1,160	428	389	456	323	147	132	282	96
5	84	91	187	1,250	365	357	403	282	142	446	239	192
6	92	84	200	764	363	322	374	261	141	230	213	111
7	77	82	538	500	427	303	369	250	144	180	225	98
8	72	77	349	388	374	442	466	280	133	156	272	93
9	77	76	242	547	343	357	378	268	130	143	215	90
10	78	75	207	2,290	315	333	353	246	131	150	235	85
11	73	73	189	1,830	297	312	701	232	123	131	411	82
12	71	72	172	1,150	334	294	706	223	118	120	261	80
13	69	71	195	981	690	281	576	282	116	112	221	77
14	69	70	167	999	512	286	489	510	113	122	212	76
15	70	69	166	705	439	262	428	450	109	147	180	74
16	118	68	171	539	389	305	405	355	107	121	164	71
17	80	67	239	463	412	307	366	312	167	134	156	114
18	74	67	215	411	380	288	337	281	125	139	146	111
19	72	72	193	410	359	279	317	260	111	143	140	88
20	70	80	552	372	327	260	302	251	144	130	137	79
21	69	70	480	485	310	272	291	237	168	121	140	75
22	89	67	330	456	316	643	799	231	118	268	173	76
23	97	66	263	432	302	455	557	222	108	173	133	75
24	99	107	228	390	296	381	442	207	102	146	125	73
25	90	96	205	353	316	379	387	197	98	131	129	71
26	80	82	187	320	399	359	352	215	96	129	122	69
27	76	100	174	302	380	473	326	187	95	158	112	105
28	74	89	166	323	347	619	306	179	448	312	105	110
29	72	92	160	308	320	836	291	175	264	932	100	116
30	70	88	173	318	------	679	276	174	177	880	96	521
31	70	------	190	292	------	629	------	187	------	518	92	------
TOTAL	2,434	2,494	7,200	19,726	10,742	12,254	12,900	8,148	4,349	6,927	6,317	3,170
MEAN	78.5	83.1	232	636	370	395	430	263	145	223	204	106
MAX	118	183	552	2,290	690	836	799	510	448	932	509	521
MIN	69	66	79	178	278	260	276	174	95	112	92	69
CFSM	.75	.80	2.23	6.12	3.56	3.80	4.13	2.53	1.39	2.14	1.96	1.02
IN.	.87	.89	2.58	7.06	3.84	4.38	4.61	2.91	1.56	2.48	2.26	1.13

CAL YR 1971 TOTAL 102,903 MEAN 282 MAX 2,400 MIN 66 CFSM 2.71 IN 36.81
WTR YR 1972 TOTAL 96,661 MEAN 264 MAX 2,290 MIN 66 CFSM 2.54 IN 34.57

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-4	1330	6.82	1,880	1-10	1700	11.15	3,720

Lakes and Reservoirs in Ohio River basin

03460242 LAKE WALTERS.--Lat 35°41'41", long 83°03'02", Haywood County, at Waterville Dam on Pigeon River, 0.1 mile downstream from Cataloochee Creek, 5.5 miles southeast of Mount Sterling, and at mile 38.0. Drainage area, 455 sq mi. Period of record, October 1961 to current year. Nonrecording gage read once daily. Datum of gage is at mean sea level. Extremes for current year: Maximum contents observed, 12,800 cfs-days Dec. 7, 8, Jan. 12-15, Apr. 13, June 21 (elevation, 2,258.6 ft); minimum observed, 2,970 cfs-days Nov. 12 (elevation, 2,182.0 ft). Extremes for period of record: Maximum contents observed, 12,800 cfs-days several days each year (elevation, 2,258.6 ft); minimum observed, 2,970 cfs-days Nov. 12, 1971 (elevation, 2,182.0 ft).

Reservoir is formed by single arch, variable radius, concrete dam with fourteen taintor gates 10 ft high by 24 ft wide. Dam was completed in 1929 and filling began October 1929; water in reservoir first reached minimum pool elevation November 1929. Total capacity (new capacity table put into use Jan. 1, 1971), at elevation 2,258.6 ft (top of gates) is 12,800 cfs-days, of which 10,400 cfs-days is controlled storage above elevation 2,175 ft (minimum pool). Reservoir is used for power. Prior to Jan. 1, 1971 records furnished by Carolina Power and Light Co. Gage-height record furnished by Carolina Power and Light Co.; level storage records furnished by Tennessee Valley Authority.

03504500 NANTAHALA LAKE.--Lat 35°11'56", long 83°39'17", Cherokee County, at Nantahala Dam on Nantahala River, 4.2 miles southeast of Topton, 5.5 miles upstream from Whiteoak Creek, and at mile 22.8. Drainage area, 91.0 sq mi. Period of record, January 1942 to current year. Prior to October 1944 monthend contents only, published in WSP 1306. Gage, water-stage recorder. Datum of gage is a local datum which is 122.16 ft above mean sea level. Prior to June 3, 1942, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 69,200 cfs-days Jan. 21 (elevation, 2,889.98 ft); minimum, 53,800 cfs-days Dec. 4 (elevation, 2,869.18 ft). Extremes for period of record: Maximum contents, 70,400 cfs-days Apr. 12, 1957 (elevation, 2,890.55 ft); minimum (after first filling), 6,700 cfs-days Jan. 28, 1955 (elevation, 2,760.11 ft).

Reservoir is formed by rockfill dam with side channel gate-controlled spillway supplemented by fuse-plug dam. Dam completed and storage began Jan. 30, 1942; water in reservoir first reached minimum pool elevation Feb. 16, 1942. Total capacity (based on 1969 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 2,890.0 ft (top of gates) is 69,200 cfs-days, of which 63,500 cfs-days is controlled storage above 2,758.84 ft (minimum pool). Reservoir is used for flood control and power. Gage-height record furnished by the Aluminum Co. of America; level storage records furnished by Tennessee Valley Authority. (See sta 03505500)

03507500 THORPE RESERVOIR.--Lat 35°11'46", long 83°09'09", Jackson County, at Thorpe Dam on West Fork Tuckasegee River, 2.3 miles northwest of Glenville, 3.0 miles upstream from Shoal Creek, and at mile 9.7. Drainage area, 36.7 sq mi. Period of record, February 1941 to current year. Prior to October 1944 monthend contents only, published in WSP 1306. Prior to October 1948, published as Glenville Reservoir. Gage, water-stage recorder. Datum of gage is a local datum which is 391.75 ft above mean sea level. Prior to Apr. 9, 1941, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 34,100 cfs-days May 30 (elevation, 3,097.98 ft); minimum, 25,700 cfs-days Dec. 2 (elevation, 3,085.72 ft). Extremes for period of record: Maximum contents, 35,700 cfs-days Mar. 13, 1950 (elevation, 3,100.01 ft); minimum (after first filling), 2,200 cfs-days Feb. 5, 1955, Jan. 13, 1956; minimum elevation, 3,025.10 ft Feb. 5, 1955.

Reservoir is formed by earth and rock dam and six 40-foot fuse-plug dams. Side channel spillway equipped with two taintor gates 12 ft high by 25 ft wide. Dam completed and storage began Feb. 12, 1941. Water in reservoir first reached minimum pool elevation Mar. 15, 1941. Total capacity (based on 1969 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 3,100.0 ft (top of gates) is 35,500 cfs-days, of which 33,700 cfs-days is controlled storage above elevation 3,023.25 ft (minimum pool). Reservoir is used for flood control and power. Gage-height record furnished by Aluminum Co. of America; level storage records furnished by Tennessee Valley Authority. (See sta 03508000)

03514500 FONTANA LAKE.--Lat 35°27'07", long 83°48'18", Graham County, at Fontana Dam on Little Tennessee River, 5.7 miles upstream from Twenty Mile Creek, 9.0 miles north of Robbinsville, 9.6 miles upstream from Cheoah Dam, and at mile 61.0. Drainage area, 1,571 sq mi. Period of record, October 1944 to current year. Prior to November 1944, monthend contents only, published in WSP 1306. Gage, water-stage recorder. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 701,800 cfs-days July 5 (elevation, 1,705.38 ft); minimum, 351,600 cfs-days Jan. 1 (elevation, 1,618.57 ft). Extremes for period of record: Maximum contents, 722,300 cfs-days July 23, 1949 (elevation, 1,708.91 ft); minimum (after first filling), 78,300 cfs-days Jan. 29, 1955 (elevation, 1,472.0 ft).

Reservoir is formed by gravity nonoverflow type concrete dam. Spillway equipped with four radial gates 35 ft high by 35 ft wide. Storage began Nov. 7, 1944; dam completed March 1945; water in reservoir first reached minimum pool elevation Jan. 16, 1945. Total capacity (based on 1967 resurvey; new capacity table put into use Jan. 1, 1971), at elevation, 1,710.0 ft (top of gates) is 727,500 cfs-days, of which 578,000 cfs-days is controlled storage above elevation 1,525.0 ft (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

03516500 SANTEETLAH LAKE.--Lat 35°22'38", long 83°52'33", Graham County, at Santeetlah Dam on Cheoah River, 1 mile downstream from Santeetlah Creek, 5.5 miles northwest of Robbinsville, and at mile 9.3. Drainage area, 176 sq mi. Period of record, December 1927 to current year. Prior to October 1946 monthend contents only, published in WSP 1306. Gage, water-stage recorder. Datum of gage is a local datum which is 122.92 ft above mean sea level. Prior to February 1937, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 76,800 cfs-days Apr. 14 (elevation, 1,815.48 ft); minimum, 51,700 cfs-days Sept. 29 (elevation, 1,795.30 ft). Extremes for period of record: Maximum contents, 81,100 cfs-days Sept. 3, 1928 (elevation, 1,817.90 ft); minimum (after first filling), 13,100 cfs-days Feb. 6, 1940 (elevation, 1,741.39 ft).

Reservoir is formed by concrete gravity and arch dam with concrete spillway controlled by six taintor gates 12 ft high by 25 ft wide. Dam completed and storage began Dec. 7, 1927. Water in reservoir first reached minimum pool elevation December 1927. Total capacity (new capacity table put into use Jan. 1, 1971), at elevation 1,817.00 ft (top of gates) is 78,800 cfs-days, of which 66,600 cfs-days is controlled storage above 1,740.08 ft (minimum pool). Reservoir is used for power. Gage-height record furnished by Aluminum Co. of America; level storage records furnished by Tennessee Valley Authority.

Lakes and Reservoirs in Ohio River basin--Continued

03546500 CHATUGE LAKE.--Lat 35°01'01", long 83°47'28", Clay County, at Chatuge Dam on Hiwassee River 2.0 miles upstream from Hyatt Mill Creek, 2.5 miles downstream from Gerogia-North Carolina State line, 2.4 miles southeast of Hayesville, and at mile 121.0. Drainage area, 189 sq mi. Period of record, February 1942 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level. Prior to Aug. 4, 1942, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 113,400 cfs-days May 23 (elevation, 1,925.75 ft); minimum, 78,400 cfs-days Dec. 2 (elevation, 1,913.63 ft). Extremes for period of record: Maximum contents, 124,200 cfs-days Apr. 20, 1943 (elevation, 1,927.80 ft); minimum (after first filling), 9,400 cfs-days Sept. 5, 1947, Jan. 27, 1956; minimum elevation, 1,860.11 ft Sept. 5, 1947.

Reservoir is formed by a rolled earthfill dam with side channel spillway equipped with flashboards. Dam completed and storage began Feb. 12, 1942; water in reservoir first reached minimum pool elevation Feb. 26, 1942. Total capacity (based on 1965 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 1,928.0 ft (top of flashboards) is 121,200 cfs-days, of which 111,900 cfs-days is controlled storage above elevation 1,860.0 ft (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority. (See sta 03547000)

03554500 HIWASSEE LAKE.--Lat 35°09'01", long 84°10'40", Cherokee County, at Hiwassee Dam on Hiwassee River, 0.3 mile northwest of village of Hiwassee Dam, 3.9 miles upstream from Shoal Creek, and at mile 75.8. Drainage area, 968 sq mi. Period of record, September 1939 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level. Subtract 0.63 ft from all elevations to reduce to datum of 1929, supplementary adjustment of 1936. Extremes for current year: Maximum contents, 206,100 cfs-days May 27 (elevation, 1,522.44 ft); minimum, 84,500 cfs-days Jan. 3 (elevation, 1,466.40 ft). Extremes for period of record: Maximum contents, 220,700 cfs-days Apr. 24, 1944 (elevation, 1,526.48 ft); minimum (after first filling), 35,800 cfs-days Jan. 28, 1948 (elevation, 1,413.41 ft).

Reservoir is formed by gravity overflow concrete dam with seven taintor gates 23 ft high by 32 wide. Slight storage began Apr. 13, 1939, during construction; systematic storage operation began Jan. 14, 1940; dam completed February 1940; water in reservoir first reached minimum pool elevation Feb. 23, 1940. Total capacity (based on 1965 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 1,526.5 ft (top of gates) is 218,800 cfs-days, of which 182,700 cfs-days is controlled storage above elevation 1,415.0 ft (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

03555500 APALACHIA LAKE.--Lat 35°10'04", long 84°17'49", Cherokee County, at Apalachia Dam on Hiwassee River, 0.1 mile upstream from North Carolina-Tennessee State line, 1.5 miles northeast of Farner, Tenn., 9.8 miles downstream from Hiwassee Dam, and at mile 66.0. Drainage area, 1,018 sq mi. Period of record, February 1943 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 29,000 cfs-days Mar. 24 (elevation, 1,279.75 ft); minimum, 24,700 cfs-days Aug. 23 (elevation, 1,271.90 ft). Extremes for period of record: Maximum contents, 30,300 cfs-days June 13, 1952 (elevation, 1,281.40 ft); minimum (after first filling), 15,300 cfs-days Apr. 25, 1971 (elevation, 1,251.00 ft).

Reservoir is formed by concrete gravity dam. Spillway equipped with 10 radial gates. Dam completed and storage began Feb. 14, 1943; water in reservoir first reached minimum pool elevation Feb. 21, 1943. Total capacity (based on 1965 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 1,280.00 ft (top of gates) is 29,100 cfs-days, of which 24,500 cfs-days is controlled storage above elevation 1,212.00 ft (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

OTHER RESERVOIRS.--The following smaller reservoirs in the Tennessee River basin are described below, but records of contents are not published herein:

03447832 LAKE JULIAN.--Lat 35°28'37", long 82°32'51", Buncombe County, cooling water reservoir for Carolina Power and Light Co. plant, on Powells Creek near Skyland. Prior to November 1967, published as Asheville Steam-electric Generating Plant Lake. Drainage area, 4.78 sq mi. Total capacity is 4,540 cfs-days, of which 2,120 cfs-days is controlled storage. Storage began Mar. 27, 1963, and lake reached spillway elevation of 2,160 ft on June 3, 1963. Most of initial storage and occasional supplemental storage provided by pumped diversion from French Broad River.

03448959 BURNETT LAKE.--Lat 35°39'44", long 82°20'43", Buncombe County, part of Asheville's municipal water supply, on North Fork Swannanoa River near Black Mountain. Drainage area, 21.9 sq mi. Total capacity is 11,600 cfs-days (crest of spillway), of which 8,900 cfs-days is controlled storage. Storage began Jan. 28, 1954. (See sta 03451000)

03450134 BEETREE RESERVOIR.--Lat 35°38'27", long 82°24'04", Buncombe County, part of Asheville's municipal water supply, on Beetree Creek near Swannanoa. Drainage area, 7.62 sq mi. Total capacity is 844 cfs-days, of which 823 cfs-days is controlled storage. Dam completed December 1926, and storage began Jan. 11, 1927; water in reservoir first reached maximum pool elevation Mar. 8, 1927. No diversion since June 1963.

03455773 LAKE LOGAN.--Lat 35°25'15", long 82°55'30", Haywood County, on West Fork Pigeon River near Canton, and at mile 7.0. Drainage area, 33.3 sq mi. Total capacity is 1,040 cfs-days (top of flashboards), all of which is usable. Storage began November 1931. (See sta 03456000)

03458319 LAKE JUNALUSKA.--Lat 35°31'38", long 82°57'48", Haywood County, on Richland Creek at Lake Junaluska, and at mile 2.4. Drainage area, 63.6 sq mi. Total surface area, about 195 acres. Lake reached spillway elevation in the spring of 1913.

03500466 SEQUOYAH LAKE.--Lat 35°04'02", long 83°13'31", Macon County, on Cullasaja River near Highlands, and at mile 18.4. Drainage area, 14.4 sq mi. Total capacity is 233 cfs-days (spillway crest), of which approximately 116 cfs-days is usable. Storage began in 1926.

03507111; 03507131 EAST FORK LAKE AND WOLF CREEK LAKE.--These two reservoirs are operated as a unit for storage of water for the Tennessee Creek Project. East Fork Dam (drainage area, 24.9 sq mi) on Tuckasegee River near Tuckasegee, Jackson County, is at lat 35°12'48", long 83°00'08", Wolf Creek Dam (drainage area, 15.2 sq mi) on Wolf Creek near Tuckasegee, is at lat 35°13'18", long 83°00'00".

Total capacity of East Fork Lake is 671 cfs-days, of which 625 cfs-days is controlled storage. Storage began Apr. 18, 1955. Total capacity of Wolf Creek Lake is 5,070 cfs-days, of which 3,850 cfs-days is controlled storage. Storage began Mar. 22, 1955. (See sta 03508000)

Lakes and Reservoirs in Ohio River basin--Continued

03507216 BEAR CREEK LAKE.--Lat 35°14'29", long 83°04'22", Jackson County, on Tuckasegee River near Tuckasegee. Drainage area, 75.3 sq mi. Total capacity is 17,500 cfs-days, of which 2,290 cfs-days is controlled storage. Storage began Oct. 9, 1953. (See sta 03508000)

03507289 CEDAR CLIFF LAKE.--Lat 35°15'12", long 83°05'58", Jackson County, on Tuckasegee River near Tuckasegee, and at mile 51.9. Drainage area, 80.3 sq mi. Total capacity is 3,200 cfs-days, of which 400 cfs-days is controlled storage. Storage began Apr. 26, 1952. (See sta 03508000)

03515152 CHEOAH LAKE.--Lat 35°26'54", long 83°56'11", Graham County, on Little Tennessee River at Cheoah, and at mile 51.4. Drainage area, 1,608 sq mi. Total capacity is 17,700 cfs-days, of which 3,700 cfs-days is controlled storage. Storage began Dec. 8, 1918.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Gage height (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Gage height (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03460242 Lake Walters			03504500 Nantahala Lake			03507500 Thorpe Reservoir			03514500 Fontana Lake		
Sept. 30	2,237.1	9,500	-	2,876.94	59,300	-	3,088.35	27,400	-	1,676.87	565,900	-
Oct. 31	2,198.8	4,510	-4,990	2,877.64	59,800	+500	3,088.82	27,800	+400	1,648.69	450,300	-115,600
Nov. 30	2,220.5	7,120	+2,610	2,870.07	54,400	-5,400	3,085.96	25,900	-1,900	1,624.86	371,300	-79,000
Dec. 31	2,232.8	8,830	+1,710	2,879.53	61,200	+6,800	3,092.56	30,300	+4,400	1,618.94	352,700	-18,600
CAL YR 1971	-	-	+2,120	-	-	+19,100	-	-	+9,700	-	-	+61,200
Jan. 31	2,231.9	8,690	-140	2,888.60	68,100	+6,900	3,096.31	32,900	+2,600	1,635.85	407,600	+54,900
Feb. 29	2,232.6	8,800	+110	2,886.85	66,800	-1,300	3,096.31	32,900	0	1,645.06	437,100	+29,500
Mar. 31	2,234.4	9,060	+260	2,888.70	68,200	+1,400	3,096.87	33,300	+400	1,665.15	516,500	+79,400
Apr. 30	2,250.7	11,570	+2,510	2,885.49	65,700	-2,500	3,096.27	32,900	-400	1,690.75	629,700	+113,200
May 31	2,246.3	10,880	-690	2,886.17	66,200	+500	3,097.90	34,000	+1,100	1,702.86	689,200	+59,500
June 30	2,248.8	11,270	+390	2,885.36	65,600	-600	3,097.11	33,500	-500	1,704.78	698,800	+9,600
July 31	2,250.0	11,460	+190	2,886.78	66,700	+1,100	3,096.24	32,800	-700	1,699.41	672,100	-26,700
Aug. 31	2,246.2	10,860	-600	2,884.40	64,900	-1,800	3,093.94	31,200	-1,600	1,686.00	607,300	-64,800
Sept. 30	2,249.5	11,380	+520	2,879.12	60,900	-4,000	3,090.58	28,900	-2,300	1,666.30	521,200	-86,100
WTR YR 1972	-	-	+1,880	-	-	+1,600	-	-	+1,500	-	-	-44,700

Date	Gage height (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03516500 Santeetlah Lake			03546500 Chatuge Lake			03554500 Hiwassee Lake			03555500 Apalachia Lake		
Sept. 30	1,805.54	63,500	-	1,920.26	96,100	-	1,505.54	159,600	-	1,275.64	26,600	-
Oct. 31	1,805.37	63,300	-200	1,917.32	88,100	-8,000	1,489.42	123,400	-36,200	1,275.08	26,300	-300
Nov. 30	1,800.52	57,500	-5,800	1,913.93	79,200	-8,900	1,475.04	97,800	-25,600	1,274.74	26,100	-200
Dec. 31	1,804.56	62,300	+4,800	1,914.28	80,100	+900	1,467.67	86,300	-11,500	1,275.91	26,800	+700
CAL YR 1971	-	-	+24,900	-	-	+1,200	-	-	+13,200	-	-	-1,000
Jan. 31	1,813.73	74,300	+12,000	1,914.58	80,900	+800	1,471.42	91,900	+5,600	1,277.43	27,700	+900
Feb. 29	1,813.45	73,900	-400	1,915.33	82,800	+1,900	1,478.04	103,000	+11,100	1,277.24	27,600	-100
Mar. 31	1,815.06	76,200	+2,300	1,919.06	92,700	+9,900	1,497.36	140,200	+37,200	1,277.47	27,700	+100
Apr. 30	1,815.00	76,100	-100	1,922.62	103,200	+10,500	1,515.08	184,100	+43,900	1,276.19	27,000	-700
May 31	1,813.20	73,600	-2,500	1,925.66	113,100	+9,900	1,521.65	203,500	+19,400	1,276.05	26,900	-100
June 30	1,808.95	67,800	-5,800	1,923.95	107,400	-5,700	1,521.05	201,500	-2,000	1,276.35	27,000	+100
July 31	1,806.92	65,200	-2,600	1,923.05	104,600	-2,800	1,519.26	195,900	-5,600	1,275.90	26,800	-200
Aug. 31	1,803.17	60,600	-4,600	1,920.35	96,400	-8,200	1,515.10	184,200	-11,700	1,275.63	26,600	-200
Sept. 30	1,796.20	52,700	-7,900	1,917.05	87,300	-9,100	1,505.92	160,500	-23,700	1,276.85	27,300	+700
WTR YR 1972	-	-	-10,800	-	-	-8,800	-	-	+900	-	-	+700

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to these events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of nearby streams where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years of operation at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1972, in South Atlantic Slope basins

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Cape Fear River basin						
02102179	Whiteoak Creek near Friendship, N. C.	Lat 35°39'07", long 78°53'17", Wake County, at bridge on Secondary Road 1152, 1.3 miles downstream from Little Branch, and 2.9 miles south of Friendship.	a14	1972	6- 6-72 8-14-72	1.03 .61
02102180	Whiteoak Creek near Holly Springs, N. C.	Lat 35°37'20", long 78°55'00", Wake County, at bridge on Secondary Road 1127, 2.0 miles upstream from Little Whiteoak Creek, and 5 miles west of Holly Springs.	a21	1963-68, 1972	6- 6-72 8-14-72	2.26 .15
02102182	Little Whiteoak Creek near Bonsal, N. C.	Lat 35°37'30", long 78°55'47", Wake County, at bridge on Secondary Road 1128, 0.6 mile upstream from Thomas Creek, and 2.8 miles southeast of Bonsal.	a6.9	1972	6- 6-72 8-14-72	.38 .21
02102184	Whiteoak Creek near Carthage, N. C.	Lat 35°34'25", long 78°58'13", Chatham County, at bridge on Secondary Road 1914, 0.5 mile upstream from Cary Creek, and 1.8 miles northeast of Corinth.	a46	1972	6-15-72 8-14-72	.88 1.15
02102185	Cary Creek at Holleman's Crossroads, N. C.	Lat 35°36'35", long 78°54'11", Wake County, at bridge on Secondary Road 1127, 0.1 mile downstream from unnamed tributary, and 0.4 mile southeast of Holloman's Crossroads.	a3.8	1972	6- 6-72 8-14-72	.67 .20
02102186	Cary Creek tributary near Burt, N. C.	Lat 35°35'18", long 78°54'24", Wake County, 0.2 mile upstream from bridge on Secondary Road 1116, 0.2 mile southwest of Burt, and 1.6 miles upstream from mouth.	a10	1972	6-15-72 8-14-72	3.43 1.91
02102187	Cary Creek tributary at Burt, N. C.	Lat 35°35'23", long 78°54'32", Wake County, 0.2 mile downstream from bridge on Secondary Road 1116, 0.5 mile west of Burt, and 1.2 miles upstream from mouth.	a10	1972	6-15-72 8-14-72	2.91 1.98
02102188	Cary Creek near Corinth, N. C.	Lat 35°34'30", long 78°57'49", Chatham County, 0.5 mile upstream from mouth, 0.9 mile downstream from unnamed tributary, and 2.1 miles northeast of Corinth.	a22	1972	6-15-72 8-14-72	4.35 2.01

a Approximately.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1972, in South Atlantic Slope basins

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Roanoke River basin					
02070810	Jacobs Creek near Wentworth, N. C.	Lat 36°20'54", long 79°53'14", Rockingham County, at bridge on Secondary Road 2316, 3.5 miles upstream from mouth, and 7.2 miles southwest of Wentworth.	a16	1954-72	10-15-54	28.94	c2,800
					10-16-64	26.66	c1,400
					8-16-69	26.88	c1,500
					5-13-71	27.02	c1,550
					6-21-72	30.2	4,500
02071410	Matrimony Creek near Leaksville, N. C.	Lat 36°31'39", long 79°50'08", Rockingham County, at bridge on Secondary Road 1501, 0.5 mile upstream from Little Matrimony Creek, and 5 miles northwest of Leaksville.	12.0	1958-72	11-18-57	17.69	f1,700
					9- 7-59	16.55	f1,100
					10-10-59	15.31	f660
					3-22-61	15.20	f640
					6-12-62	16.23	f1,000
					3- 6-63	16.70	f1,200
					1-25-64	14.25	f400
					(1965)	d	f<350
					2-28-66	16.01	f900
					8-24-67	14.42	f440
					(1968)	d	f<350
					8- 1-69	17.98	f2,300
					8-10-70	16.13	f1,400
					5-16-71	13.44	f660
					6-21-72	18.59	2,800
02075230	South Country Line Creek near Hightowers, N. C.	Lat 36°19'29", long 79°18'20", Caswell County, at bridge on Secondary Road 1759, 1.8 miles upstream from Penson Creek, and 3.5 miles west of Hightowers.	a7.1	1954-72	6-21-72	17.59	1,050
		Pamlico River basin					
02081710	Long Creek at Kittrell, N. C.	Lat 36°13'30", long 78°27'15", Vance County, at bridge on Secondary Road 1105, 0.8 mile west of Kittrell, and 2.5 miles upstream from mouth.	a7.5	1954-72	10-23-71	14.92	†
02082540	Wildcat Branch near Mapleville, N. C.	Lat 36°03'29", long 78°08'39", Franklin County, at culvert on Secondary Road 1616, 1.8 miles upstream from mouth, and 5 miles east of Mapleville.	a.4	1953-72	10-23-71	22.47	†
02082835	Fishing Creek near Warrenton, N. C.	Lat 36°23'00", long 78°10'54", Warren County, at bridge on Secondary Road 1001, 0.5 mile downstream from Phoebes Creek, and 2 miles southwest of Warrenton.	a45	1954-72	10-23-71	20.11	†
02083410	Deep Creek near Scotland Neck, N. C.	Lat 36°09'26", long 77°28'24", Halifax County, at culvert on State Highway 125, 3 miles west of Scotland Neck, and 4.5 miles upstream from Canal Creek.	a12	1953-72	5-16-72	18.51	730
02084240	Collie Swamp near Everetts, N. C.	Lat 35°49'34", long 77°12'03", Martin County, at bridge on U. S. Highway 64, 1.6 miles west of Everetts, and 4.8 miles upstream from mouth.	a29	1953-72	10- 1-71	22.47	1,500
02084520	Upper Goose Creek near Yeatsville, N. C.	Lat 35°31'25", long 76°53'23", Beaufort County, at culvert on U. S. Highway 264, 5.2 miles upstream from mouth, and 8.5 miles west of Yeatsville.	1.49	1953-72	10- 1-71	24.24	285
		Neuse River basin					
02085190	North Fork Little River tributary near Rougemont, N. C.	Lat 36°11'41", long 79°00'52", Orange County, at culvert on State Highway 57, 1.5 miles upstream from mouth, and 6 miles west of Rougemont.	1.02	1954-72	10-25-71	24.00	560
02087240	Stirrup Iron Creek tributary near Nelson, N. C.	Lat 35°53'06", long 78°49'37", Durham County, at culvert on Secondary Road 1972, 0.5 mile upstream from mouth, and 1.5 miles east of Nelson.	.25	1952, 1954-72	6-16-65	47.93	c75
					5-22-66	47.35	c56
					6-18-67	46.74	c38
					1-13-68	45.95	c19
					2- 2-69	45.97	c19
					8-23-70	47.48	c60
					2- 8-71	46.28	c26
					6-21-72	46.75	38
02090960	Nahunta Swamp near Pikeville, N. C.	Lat 35°30'40", long 77°58'56", Wayne County, at bridge on U. S. Highway 117, 0.2 mile downstream from Seaboard Coast Line Railroad, and 1 mile north of Pikeville.	a19	1953-72	1-13-72	17.21	320
02092620	Upper Broad Creek tributary near Grantsboro, N. C.	Lat 35°08'06", long 76°56'31", Pamlico County, at bridge on State Highway 55, 1 mile upstream from mouth, and 5.5 miles west of Grantsboro.	a3.3	1953-72	10- 1-71	21.33	450

Annual maximum discharge at crest-stage partial-record stations during water year 1972, in South Atlantic Slope basins--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		White Oak River basin					
02092720	White Oak River at Belgrade, N. C.	Lat 34°53'30", long 77°14'02", Onslow County, at bridge on U. S. Highway 17, 0.8 mile north of Belgrade, and 1.1 miles upstream from Mirey Branch.	a53	1953-72	8- 5-69 10-23-71	14.67 15.58	c880 1,200
		New River basin					
02093040	Southwest Creek tributary near Jacksonville, N. C.	Lat 34°47'18", long 77°33'08", Onslow County, at culvert on Secondary Road 1211, 0.5 mile upstream from mouth, and 8 miles northwest of Jacksonville.	a1.0	1953-72	10-23-71	22.60	296
02093070	Southwest Creek near Jacksonville, N. C.	Lat 34°43'56", long 77°32'02", Onslow County, at bridge on State Highway 53, 0.5 mile upstream from Harris Creek, and 4.5 miles southwest of Jacksonville.	a27	1953-72	10-23-71	23.83	2,650
		Cape Fear River basin					
02093549	Haw River at Altamahaw, N. C.	Lat 36°10'43", long 79°30'09", Alamance County, at dam, upstream from bridge on State Highway 87, at Altamahaw, and 1.2 miles upstream from Reedy Fork.	188	1967-72	3-12-68 4-18-69 8-12-70 5-13-71 6-21-72	40.97 39.94 40.14 40.72 42.60	f2,200 f670 f890 f1,800 6,900
02096740	Gun Branch near Alamance, N. C.	Lat 36°02'58", long 79°28'35", Alamance County, at bridge on State Highway 62, 1 mile north of Alamance, and 1.5 miles upstream from mouth.	a5.0	1954-72	9-30-72	16.81	180
02097010	Robeson Creek near Pittsboro, N. C.	Lat 35°43'29", long 79°12'33", Chatham County, at culvert 500 ft upstream from culvert on U. S. Highway 64, and 1.8 miles west of Pittsboro.	a1.1	1954-72	10-25-71	24.00	†
02101030	Falls Creek near Bennett, N. C.	Lat 35°33'20", long 79°29'56", Chatham County, at culvert on State Highway 902, 2.5 miles southeast of Bennett, and 6 miles upstream from mouth.	a3.0	1954-72	10-25-71	24.99	1,140
02101480	Sugar Creek near Tramway, N. C.	Lat 35°25'28", long 79°14'50", Lee County, at culvert on Secondary Road 1303, 1.2 miles upstream from mouth, and 2 miles southwest of Tramway.	a.9	1954-72	11-25-71	20.12	59
02105570	Browns Creek near Elizabethtown, N. C.	Lat 34°36'32", long 78°36'57", Bladen County, at bridge on U. S. Highway 701, 1.5 miles south of Elizabethtown, and 3.5 miles upstream from mouth.	a14	1953-72	5-19-72	17.74	96
02106240	Turkey Creek near Turkey, N. C.	Lat 35°00'11", long 78°11'06", Sampson County, at bridge on Secondary Road 1911, 1 mile north of Turkey, and 2.8 miles upstream from mouth.	a16	1953-72	2- 3-72	20.63	230
02106910	Big Swamp near Roseboro, N. C.	Lat 34°58'38", long 78°34'07", Sampson County, at bridge on State Highway 24, 4 miles northwest of Roseboro, and 5 miles upstream from mouth.	a32	1953-72	1-16-72	19.63	368
02107620	Mathews Creek near Pink Hill, N. C.	Lat 35°05'49", long 77°49'10", Duplin County, at bridge on State Highway 111, 1 mile upstream from mouth, and 5.5 miles northwest of Pink Hill.	8.61	1953-72	7-12-72	19.30	†
		Pee Dee River basin					
02115765	Silas Creek tributary at Pine Valley Road, Winston-Salem, N. C.	Lat 36°06'19", long 80°17'52", Forsyth County, at culvert on Pine Valley Road, 0.7 mile upstream from mouth, and 3 miles northwest of post office in Winston-Salem.	.89	1968-72	5- 3-72	4.46	257
02115839	Brushy Creek tributary 2 at U. S. 311, Winston-Salem, N. C.	Lat 36°06'10", long 80°13'21", Forsyth County, at culvert on U. S. Highway 311, 0.4 mile upstream from mouth, and 1.3 miles northeast of city hall in Winston-Salem.	.55	1969-72	6-17-72	2.66	239
02115843	Tar Branch at Walnut Street, Winston-Salem, N. C.	Lat 36°05'02", long 80°14'34", Forsyth County, at culvert on Walnut Street, 0.3 mile upstream from mouth, and 0.8 mile south of city hall in Winston-Salem.	.59	1968-72	8- 7-72	5.45	400
02115845	Peters Creek at Winston-Salem, N. C.	Lat 36°04'56", long 80°15'30", Forsyth County, at downstream side of culvert off Peters Creek Parkway, 0.1 mile downstream from Academy Street, and 1.4 miles southwest of post office in Winston-Salem.	5.30	1965-72	9-27-72	17.05	1,500

Annual maximum discharge at crest-stage partial-record stations during water year 1972, in South Atlantic Slope basins--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Pee Dee River basin--Continued					
02117410	McClelland Creek near Statesville, N. C.	Lat 35°57'04", long 80°56'46", Iredell County, at culvert on State Highway 115, 2.2 miles upstream from mouth, and 12 miles northwest of Statesville.	a1.6	1954-72	12- 7-71	18.92	330
02124060	North Prong Clarke Creek near Huntersville, N. C.	Lat 35°25'13", long 80°47'54", Mecklenburg County, at bridge on Secondary Road 2442, 1.0 mile upstream from South Prong, and 3 miles east of Huntersville.	3.61	1954-72	10-16-71	16.80	290
02132230	Bridge Creek tributary at Johns, N. C.	Lat 34°42'12", long 79°26'34", Scotland County, at culvert on U. S. Highway 501, 0.2 mile north of Johns, and 0.8 mile upstream from mouth.	a6.2	1953-72	1-14-72	19.11	102
02134380	Tenmile Swamp near Lumberton, N. C.	Lat 34°43'34", long 78°59'31", Robeson County, at culvert on U. S. Highway 301, 1.4 miles downstream from Cowpen Branch, and 7.7 miles north of Lumberton.	a16	1953-72	3- 5-66 1-11-68 3- 7-69 c3-22-70 2- 9-71 1-14-72	20.75 21.14 20.09 c20.62 20.81 20.59	c208 c278 c112 c185 c216 180
		Santee River basin					
02139610	Hunting Creek at Morganton, N. C.	Lat 35°44'17", long 81°40'45", Burke County, upstream from bridge on College Street, 0.6 mile southeast of courthouse in Morganton, and 1.6 miles upstream from East Prong.	8.26	1967-72	6-21-72	6.79	669
02141130	Zacks Fork Creek near Lenoir, N. C.	Lat 35°55'32", long 81°31'13", Caldwell County, at bridge on Secondary Road 1563, 1.3 miles northeast of courthouse in Lenoir, and 1.6 miles upstream from mouth.	9.14	1967-72	10-16-71	17.84	170
02141184	Blair Fork at Lenoir, N. C.	Lat 35°55'39", long 81°32'39", Caldwell County, at bridge on old North Main Street, 0.1 mile downstream from Long Branch, and 0.9 mile north of courthouse in Lenoir.	6.91	1967-72	6-21-72	17.5	390
02146436	Briar Creek tributary 7 at Shamrock Drive, Charlotte, N. C.	Lat 35°14'06", long 80°47'23", Mecklenburg County, at culvert on Shamrock Drive, 0.5 mile upstream from mouth, and 2.8 miles northeast of courthouse in Charlotte.	.52	1967-72	6-21-72	5.36	117
02146470	Little Hope Creek at Seneca Place, Charlotte, N. C.	Lat 35°09'53", long 80°51'12", Mecklenburg County, at bridge on Seneca Place, 0.8 mile upstream from mouth, and 4 miles south of city hall in Charlotte.	2.72	1967-72	f5-13-72 7-26-72	f7.32 8.39	f788 1,240
02146890	East Fork Twelve Mile Creek near Waxhaw, N. C.	Lat 34°57'46", long 80°42'40", Union County, at bridge on Secondary Road 1008, 3 miles upstream from mouth, and 3.5 miles northeast of Waxhaw.	a42	1954-72	1-10-72	22.22	2,000
02152500	First Broad River near Lawndale, N. C.	Lat 35°22'53", long 81°32'50", Cleveland County, on right bank at village of Double Shoals, 0.4 mile upstream from Shoal Rock Creek, 500 ft downstream from bridge on Secondary Road 1809, and 2.5 miles southeast of Lawndale.	198	1940-71‡, 1972	12- 7-71	10.55	5,430

Annual maximum discharge at crest-stage partial-record stations during water year 1972, in Ohio River basin

		Tennessee River basin					
03480540	Peavine Branch near Banner Elk, N. C.	Lat 36°10'20", long 81°54'42", Avery County, at culvert on State Highway 194, upstream from mouth, and 2.7 miles west of Banner Elk.	.51	1955-72	4-12-72	16.07	†
03501760	Coon Creek near Franklin, N. C.	Lat 35°14'04", long 83°20'28", Macon County, at culvert on U. S. Highway 23, 0.7 mile upstream from mouth, and 4.5 miles northeast of Franklin.	1.60	1958-72	10- 1-65 6- 4-67 12-22-67 2- 2-69 1-10-72	4.09 5.04 4.86 4.33 4.16	c18 c143 c111 c45 23

† Not determined.
‡ Operated as a continuous record gaging station.
a Approximately.
c Revised.
d Peak stage did not reach bottom of gage.
f Not previously published.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*).

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Roanoke River basin						
Dan River 02071418	Roanoke River	Lat 36°32'29", long 79°36'21", Rockingham County, at bridge on Secondary Road 1761, at North Carolina-Virginia State line, 2.2 miles upstream from Whiteoak Creek, and 3 miles northwest of Mayfield	a1,780	1969-71	2-17-72 9-11-72	3,320 1,040
Roanoke River 02081022	Atlantic Ocean	Lat 36°01'49", long 77°15'49", Martin County, at bridge on State Highway 11, 1.9 miles downstream from Klans Gut, and 5.2 miles northeast of Oak City.	a8,830	1968-69	11- 4-71 6-30-72	19,200 17,900
Neuse River basin						
Eno River 02085011	Neuse River	Lat 36°04'32", long 79°04'17", Orange County, at bridge on U. S. Highway 70 bypass, 0.5 mile upstream from Strouds Creek, and 1.8 miles east of Hillsborough.	a74		4-17-72	51.6
Eno River 02085079	Neuse River	Lat 36°04'19", long 78°51'47", Durham County, at bridge on Secondary Road 1004, 1.3 miles upstream from Little River, and 1.5 miles northeast of Weaver.	a150	1954-55, 1958, 1968	4-18-72	92.7
Foster Creek 02085114	South Fork Little River	Lat 36°08'17", long 79°06'28", Orange County, at culvert on Secondary Road 1551, 3.8 miles southeast of Cedar Grove, and 6.8 miles upstream from mouth.	a.6	1954, 1964, 1966, 1968	4-17-72	.28
Foster Creek 02085118	South Fork Little River	Lat 36°08'20", long 79°04'54", Orange County, at bridge on Secondary Road 1550 1.5 miles southwest of Schley, and 5.0 miles upstream from mouth.	a2.7	1954, 1968	4-17-72	1.78
Knapp of Reeds Creek 02086597	Neuse River	Lat 36°08'34", long 78°47'19", Granville County, at bridge on Secondary Road 1120, 1.4 miles northwest of Butner, and 1.7 miles downstream from Picture Creek.			4-19-72	14.3
Knapp of Reeds Creek 0208662450	Neuse River	Lat 36°07'13", long 78°47'27", Granville County, at Secondary Road 1118, 1.0 mile southwest of Butner, and 1.3 miles upstream from mouth.			4-19-72	20.2
Ellerbe Creek 02086824	Neuse River	Lat 36°01'42", long 78°51'54", Durham County, at bridge on Secondary Road 1669, and 3.1 miles northeast of Durham.			4-18-72	5.96
Ellerbe Creek 02086849	Neuse River	Lat 36°03'33", long 78°39'58", Durham County, at bridge on Secondary Road 1636, 1.6 miles northwest of Gorman, 3.0 miles upstream from mouth.	21.7		4-18-72	20.6
Little Lick Creek 0208700550	Neuse River	Lat 35°58'56", long 78°49'29", Durham County, at culvert on State Highway 98, 0.2 mile west of Oak Grove, 3.2 miles upstream from Chunky Pipe Creek.			4-18-72	.33
Little Lick Creek 02087008	Neuse River	Lat 35°59'11", long 88°47'57", Durham County, at bridge on Secondary Road 1814, 1.3 miles northeast of Lake Grove, and 1.6 miles upstream from Chunky Pipe Creek.			4-18-72	2.36
Little Lick Creek 02087010	Neuse River	Lat 36°00'57", long 78°45'38", Durham County, at bridge on Secondary Road 1804, 1.8 miles upstream from mouth, and 2.3 miles south of Redwood.	19.3	1954, 1958, 1964-68, 1970	4-18-72	5.19
Ledge Creek 0208702110	Neuse River	Lat 36°07'00", long 78°42'30", Granville County, at bridge on Secondary Road 1110, 1.2 miles downstream from reservoir, and 1.2 miles southwest of Creedmoor.			4-19-72	8.57
Neuse River 02087162	Neuse River	Lat 35°58'06", long 78°37'57", Wake County, at bridge on Secondary Road 2003, 0.1 mile downstream from Lower Barton Creek, and 4.7 miles northeast of Bayleaf.			4-20-72	420
Hattels Branch 0208718330	Richland Creek	Lat 36°01'15", long 78°28'26", Franklin County, at culvert on State Highway 96, 0.4 mile southeast of Youngsville, and 2.2 miles upstream from mouth.			4-19-72	.11
Hattels Branch 0208718440	Richland Creek	Lat 36°00'55", long 78°29'29", Franklin County, at culvert on U. S. Highway 1A, 1.0 mile upstream from mouth, and 1.1 miles southwest of Youngsville.			4-19-72	1.16

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Neuse River basin--Continued						
Richland Creek 02087187	Neuse River	Lat 35°58'41", long 78°31'28", Wake County, at bridge on State Highway 98, 0.8 mile west of Wake Forest, and 4 miles upstream from mouth.			4-20-72	5.85
Richland Creek 02087188	Neuse River	Lat 35°57'46", long 78°32'29", Wake County, at culvert on U. S. Highway 1, 1.3 miles east of Forestville, and 2.5 miles upstream from mouth.	a10	1954-55, 1968	4-20-72	7.76
Neuse River 0208718995	Atlantic Ocean	Lat 35°54'36", long 78°33'27", Wake County, 0.2 mile upstream from U. S. Highway 1, and 1.1 miles north of Neuse.			4-20-72	460
Smiths Creek 02087203	Neuse River	Lat 35°56'55", long 78°30'32", Wake County, at bridge 1 mile downstream from Austin Creek, and 1 mile southeast of Forestville.	a13		4-19-72	8.34
Smiths Creek 0208720330	Neuse River	Lat 35°55'44", long 78°31'40", Wake County, at bridge on Secondary Road 2044, 1.0 mile downstream from Sanford Creek, and 2.3 miles south of Forestville.			4-19-72	14.7
Neuse River 02087216	Atlantic Ocean	Lat 35°53'02", long 78°31'43", Wake County, at bridge on State Highway 401, 1 mile west of Wake Crossroads, and 1 mile downstream from Perry Creek.	834		4-20-72	448
Neuse River 02087224	Atlantic Ocean	Lat 35°50'55", long 78°31'50", Wake County, at bridge on Secondary Road 2215, 0.5 mile downstream from Hodges Mill Creek, and 3.4 miles north of Milburnie.	860		4-20-72	479
Crabtree Creek 02087236	Neuse River	Lat 35°49'15", long 78°49'27", Wake County, at bridge on State Highway 54, 0.2 mile southeast of Morrisville, and 2.0 miles upstream from Briar Creek.	14.6	1932, 1961-62, 1968	4-18-72	3.21
Crabtree Creek tributary 0208723560	Crabtree Creek	Lat 35°49'30", long 78°48'46", Wake County, at culvert on Secondary Road 1002, 0.2 mile southwest of Morrisville, and 0.3 mile upstream from mouth.			4-18-72	.06
Licks Creek 0208723750	Crabtree Creek	Lat 35°50'45", long 78°49'49", Wake County, at bridge on Secondary Road 1640, 1.5 miles upstream from mouth at Crabtree Creek, and 1.6 miles north of Morrisville.			4-18-72	.005
Stirrup Iron Creek 02087249	Crabtree Creek	Lat 35°50'34", long 79°48'16", Wake County, at bridge on Secondary Road 1002, 0.7 mile upstream from mouth, and 1.8 miles northeast of Morrisville.	25.4	1961-62, 1968	4-18-72	5.59
Marsh Creek tributary 0208732850	Marsh Creek	Lat 35°50'42", long 78°35'05", Wake County, at culvert on Secondary Road 2108, 0.5 mile northwest of New Hope, and 1.7 miles upstream from mouth.			4-20-72	0
Marsh Creek tributary 0208732855	Marsh Creek	Lat 35°50'10", long 78°35'20", Wake County, at culvert on Secondary Road 2034, 1.1 miles upstream from mouth, and 1.3 miles southeast of Millbrook.			4-17-72	.06
Marsh Creek tributary No. 2 0208732880	Marsh Creek	Lat 35°49'23", long 78°35'09", Wake County, at culvert on Secondary Road 2245, 0.6 mile upstream from mouth, and 2 miles northwest of Wilders Grove.			4-20-72	.52
Walnut Creek 0208734550	Neuse River	Lat 35°45'30", long 78°39'51", Wake County, at bridge on Secondary Road 1009, 1.0 mile downstream from Lake Raleigh, and 2.1 miles southwest of Raleigh.			4-18-72	1.87
Big Branch 02087370	Walnut Creek	Lat 35°44'28", long 78°34'06", Wake County, at bridge on Secondary Road 2542, 1 mile upstream from mouth, and 3 miles northeast of Garner.	a12	1953-58, 1960, 1970	4-25-72	13.4
Neuse River tributary No. 5 02087386	Neuse River	Lat 35°45'15", long 78°30'31", Wake County, at bridge on Secondary Road 1007, 2.0 miles upstream from mouth, and 3.0 miles southwest of Knightdale.	a2.3	1954	4-17-72	1.72
Neuse River 02087396	Atlantic Ocean	Lat 35°44'43", long 78°30'50", Wake County, at bridge on Secondary Road 2555, 1.5 miles upstream from Poplar Creek, and 6 miles south of Knightdale.	a1,080	1955, 1958	4-18-72	885
Mill Creek 02087532	Neuse River	Lat 35°32'35", long 78°18'02", Johnston County, at bridge on Secondary Road 1900, downstream from Southern Railway, and 1.0 mile west of Selma.	3.81	1955	4-18-72	1.28
Mill Creek 02087533	Neuse River	Lat 35°32'41", long 78°18'38", Johnston County, at bridge on Secondary Road 1003, 1.3 miles upstream from mouth, and 1.6 miles west of Selma.	4.36		4-18-72	2.50

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Neuse River basin--Continued				
Little Creek 02087771	Swift Creek	Lat 35°38'39", long 78°27'55", Johnston County, at bridge on State Highway 42, 0.6 mile southwest of Clayton, and 6.9 miles upstream from mouth.	5.52		4-20-72	2.52
Little Creek 02087791	Swift Creek	Lat 35°36'53", long 78°27'37", Johnston County, at bridge on Secondary Road 1560, 2.5 miles south of Clayton, and 4.8 miles upstream from mouth.	9.67		4-18-72	8.31
Middle Creek 02087904	Swift Creek	Lat 35°40'40", long 78°49'15", Wake County, at bridge on Secondary Road 1152, 3 miles upstream from Sunset Lake, and 3.8 miles southeast of Apex.			4-18-72 5-26-72	3.10 1.47
Driving Branch 02088216	Hannah Creek	Lat 35°23'11", long 78°30'51", Johnston County, at bridge on Secondary Road 1158, 0.5 mile upstream from mouth, and 1.8 miles east of Benson.	a2.4		4-24-72	8.75
Falling Creek 0208831350	Beaverdam Creek	Lat 78°15'57", long 35°16'57", Wayne County, at bridge on Secondary Road 1102, 0.8 mile upstream from Beaverdam Creek, and 3.9 miles northwest of Dobbersville.			4-24-72	2.02
Beaverdam Creek 02088337	Neuse River	Lat 35°27'37", long 78°08'08", Wayne County, at bridge on Secondary Road 1229, 0.2 mile downstream from county line, and 2 miles southeast of Princeton.	a2.9		4-19-72	1.88
Neuse River 02088364	Atlantic Ocean	Lat 35°21'40", long 78°04'35", Wayne County, at bridge on Secondary Road 1008, 4.0 miles south of Rosewood, and 7.0 miles upstream from Little River.	a2,040	1956	4-20-72	1,500
Little River 02088415	Neuse River	Lat 35°40'00", long 78°15'32", Johnston County, at bridge on State Highway 42, 0.5 mile southwest of Hares Crossroads, and 0.5 mile downstream from Cattail Creek.	103	1964-71	10-12-71 11-10-71 1-26-72 4-24-72	230 94.4 102 122
Buffalo Creek 02088434	Little River	Lat 35°46'33", long 78°23'05", Wake County, at bridge on Secondary Road 1007, 1.0 mile downstream from Norfolk Southern Railway, and 1.0 mile southwest of Wendell.	a16	1955, 1958	4-17-72	11.0
Neuse River 02089116	Atlantic Ocean	Lat 35°15'40", long 77°54'40", Wayne County, at bridge on State Highway 111, 1.5 miles downstream from Sleepy Creek, and 4.2 miles northwest of Whitehall.	a2,460		3-14-72 4-26-72 5-10-72 6- 9-72 9-22-72	1,680 2,870 3,310 1,130 696
Stonyton Creek 02089688	Neuse River	Lat 35°18'30", long 77°31'30", Lenoir County, at bridge on State Highway 11, 0.6 mile downstream from Briery Run, and 3.1 miles northeast of Harveytown.	a30		5- 5-72	88.9
Jericho Run tributary 0208968950	Jericho Run	Lat 35°17'02", long 77°33'20", Lenoir County, at culvert on State Highway 11 and 55, 0.2 mile upstream from mouth, and 0.8 mile northwest of Harveytown.			5- 5-72	.56
Little Creek 0208995250	Moccasin Creek	Lat 35°49'00", long 78°18'07", Wake County, at culvert on State Highway 97, 3.1 miles upstream from Moccasin Creek, and 0.2 mile west of Zebulon.			4-25-72	1.86
Little Creek 02090000	Moccasin Creek	Lat 35°48'45", long 78°16'07", Wake County, at bridge on State Highway 39, 0.8 mile upstream from mouth, and 2.8 miles southeast of Zebulon.	5.47	1924-56	4-27-72	11.4
Moccasin Creek 0209009050	Contentnea Creek	Lat 35°45'14", long 78°13'08", Nash County, at bridge on Secondary Road 1116, and 2.5 miles south of Middlesex.			5- 4-72	154
Cattail Branch 0209022250	Beaverdam Creek	Lat 35°47'07", long 78°12'28", Nash County, at bridge on Secondary Road 1119, at Middlesex, and 1.3 miles upstream from mouth.			5- 4-72	.32
Bailey Branch 0209024850	Wilder Branch	Lat 35°47'00", long 78°07'36", Nash County, at bridge on U.S. Highway 264, 0.4 mile west of Bailey, and 1.0 mile upstream from Haw Branch.			5- 4-72	12.7
Wilder Branch 02090284	Turkey Creek	Lat 35°46'40", long 78°08'40", Nash County, at bridge on Secondary Road 1105, downstream from Norfolk Southern Railway, and 1.5 miles west of Bailey.	a7.7		5- 4-72	27.9
Cattail Branch 02090323	Beaverdam Creek	Lat 35°46'50", long 78°12'20", Nash County, at bridge on Secondary Road 1116, at Middlesex, and 1 mile upstream from mouth.	a.8		5- 4-72	.09
Turkey Creek 0209035950	Contentnea Creek	Lat 35°44'22", long 78°09'43", Wilson County, at bridge on Secondary Road 1131, 0.9 mile west of Connor, and 0.8 mile upstream from unnamed tributary.			5-18-72	117

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Neuse River basin--Continued						
Hominy Swamp 02090507	Contentnea Creek	Lat 35°45'02", long 77°57'35", Wilson County, at culvert on Secondary Road 1321, at Wilson, and 3.0 miles upstream from Norfolk Southern Railway.		1969-70	5-18-72	2.12
Hominy Swamp 02090509	Contentnea Creek	Lat 35°44'03", long 77°55'33", Wilson County, at bridge on U. S. Highway 264A at Wilson, and 0.3 mile upstream from Norfolk Southern Railway.	5.55	1969-70	5- 4-72 5-18-72	25.6 5.58
Hominy Swamp 02090516	Contentnea Creek	Lat 35°41'33", long 77°54'16", Wilson County, at bridge on Secondary Road 1606, 3.0 miles upstream from mouth, and 3.5 miles northwest of Evansdale.	9.95	1969-70	5-18-72	9.14
Contentnea Creek 02090519	Neuse River	Lat 35°38'33", long 77°53'18", Wilson County, at bridge on Secondary Road 1622, 0.3 mile downstream from Hominy Swamp, and 2.8 miles southwest of Evansdale.	266	1969-70	5-18-72	543
Lee Swamp tributary 0209055995	Lee Swamp	Lat 35°33'37", long 78°01'20", Wilson County, at bridge on Secondary Road 1645, 0.7 mile from mouth, and 0.9 mile from Lucama.			5-17-72	2.78
Black Creek tributary 0209056250	Black Creek	Lat 35°38'03", long 78°01'20", Wilson County, at bridge on Secondary Road 1653, 0.7 mile southwest of Lucama, and 0.9 mile upstream from mouth.			5-17-72	5.17
Black Creek 02090566	Contentnea Creek	Lat 35°37'40", long 78°00'20", Wilson County, at bridge on Secondary Road 1649, 0.5 mile downstream from Lee Swamp, and 1.1 miles south of Lucama.	a20		5-17-72	17.2
Black Creek tributary 0209057190	Black Creek	Lat 35°39'04", long 77°59'55", Wilson County, at culvert on U. S. Highway 301, 0.3 mile west of Lucama, and 1.7 miles upstream from mouth.			5-17-72	1.94
Black Creek 0209058180	Contentnea Creek	Lat 35°38'07", long 77°56'50", Wilson County, at bridge on U. S. Highway 117, 0.8 mile west of Black Creek, and 1.1 miles downstream from Cedar Branch.			5-17-72	44.7
Aycock Swamp 02090609	Black Creek	Lat 35°32'20", long 77°56'50", Wayne County, at bridge on Secondary Road 1506, 2.3 miles east of Fremont, and 6.2 miles upstream from mouth.	a1.7		4-24-72	1.80
Contentnea Creek 02090629	Neuse River	Lat 35°36'09", long 77°49'48", Wilson County, at bridge on State Highway 222, 0.6 mile southwest of Stantonsburg, and 3.0 miles downstream from Black Creek.	385	1969-70	5-18-72	535
Contentnea Creek 02090634	Neuse River	Lat 35°35'12", long 77°48'39", Wilson County, at bridge on State Highway 58, 0.6 mile upstream from Toisnot Swamp, and 1.5 miles southwest of Stantonsburg.	388	1969-70	5-18-72	651
The Slough 0209066845	Nahunta Swamp	Lat 35°29'37", long 77°54'00", Wayne County, at culvert on U. S. Highway 117, 0.1 mile south of Pineville, and 7.5 miles upstream from mouth.			4-24-72	.01
Contentnea Creek 02091241	Neuse River	Lat 35°27'27", long 77°40'11", Greene County, at bridge on U. S. Highway 258, at Snow Hill, and 0.8 mile upstream from Panther Swamp Creek.	694	1969-70	5- 4-72	1,280
Shephard Run 02091430	Contentnea Creek	Lat 35°26'06", long 77°38'42", Greene County, at culvert on State Highway 91, 1.0 mile upstream from mouth, and 2.0 miles south of Snow Hill.	1.47	1969-70	5- 5-72	2.25
Little Contentnea Creek tributary 02091589	Little Contentnea Creek	Lat 35°36'20", long 77°40'40", Greene County, at bridge on U. S. Highway 264, 0.5 mile upstream from mouth, and 1.5 miles northwest of Walstonburg.	a3.0		5- 4-72	19.8
Little Contentnea Creek 02091664	Contentnea Creek	Lat 35°36'19", long 77°34'27", Pitt County, at bridge on State Highway 121, 1.0 mile northeast of Farmville, and 1.8 miles upstream from Oldwoman Branch.	55.1	1969-70	5- 5-72	444
Little Contentnea Creek 02091679	Contentnea Creek	Lat 35°35'08", long 77°32'28", Pitt County, at bridge on Secondary Road 1218, 0.5 mile downstream from Oldwoman Branch, and 1.6 miles west of Bellarthur.	64.3	1969-70	5- 5-72	378
Middle Swamp 02091712	Little Contentnea Creek	Lat 35°33'54", long 77°35'45", Pitt County, at bridge on U. S. Highway 258, 1 mile south of Marlboro, and 3.2 miles upstream from Sandy Run Creek.	a14		5- 5-72	43.4
Contentnea Creek 02091764	Neuse River	Lat 35°22'03", long 77°26'32", Pitt County, at bridge on State Highway 11, 0.5 mile southwest of Grifton, and 4.7 miles upstream from mouth.	a980	1957, 1969-70	5- 5-72	953

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Neuse River basin--Continued						
Neuse River 02091814	Atlantic Ocean	Lat 35°18'40", long 77°18'20", Craven County, at bridge on Secondary Road 1470, 1.5 miles upstream from Core Creek, and 2 miles east of Fort Barnwell.			4-13-70 10-20-71 10-20-71 11-10-71	8,980 7,720 7,670 9,160
New River basin						
Quarrleys Branch 02092815	New River	Lat 34°54'54", long 77°45'57", Onslow County, at culvert on State Highway 24, 0.6 mile upstream from mouth, and 3.1 miles west of Richlands.		1971	5-19-72	6.20
Mill Swamp 02092864	New River	Lat 34°54'24", long 77°32'25", Onslow County, at bridge on Secondary Road 1003, 0.6 mile northeast of Richlands, and 2.6 miles upstream from mouth.		1971	5-19-72	13.5
Mill Swamp 02092865	New River	Lat 34°54'24", long 77°32'25", Onslow County, at bridge on Secondary Road 1307, 0.8 mile northeast of Richlands, and 1.6 miles upstream from mouth.		1971	5-19-72	.55
New River tributary 0209303255	New River	Lat 34°44'52", long 77°26'35", Onslow County, at culvert on Secondary Road 1562, 0.4 mile upstream from mouth, and 0.8 mile west of Jacksonville.		1971	5-19-72	.03
Northeast Creek 02093170	New River	Lat 34°46'25", long 77°21'40", Onslow County, at bridge on Secondary Road 1406, 1.6 miles downstream from Wolf Swamp, and 2.1 miles south of Kellum.	a28	1941, 1953-54, 1956-58, 1971	5-19-72	42.4
Mott Creek 02093184	Northeast Creek	Lat 34°43'26", long 77°19'14", Onslow County, at culvert on Secondary Road 1413, 0.5 mile north of Piney Green, and 2.4 miles upstream from mouth.		1971	5-19-72	.46
Cape Fear River basin						
Little Troublesome Creek 02093383	Haw River	Lat 36°19'53", long 79°39'48", Rockingham County, at bridge on U. S. Highway 29A, 0.4 mile upstream from mouth, and 2.1 miles south of Reidsville.	a3.7	1970-71	5-16-72	8.47
Little Troublesome Creek 02093423	Haw River	Lat 36°16'53", long 79°36'37", Rockingham County, at bridge on Secondary Road 2600, 0.8 mile west of Thompsonville, and 1.0 mile upstream from mouth.	a13	1970-71	5-16-72	74.2
Cabin Creek 02100843	Bear Creek	Lat 35°18'38", long 79°44'14", Montgomery County, at bridge on Secondary Road 1509, 1.2 miles north of Candor, and 6.5 miles upstream from Cotton Creek.		1971	5-17-72	1.09
Mill Creek 02100862	Lick Creek	Lat 35°21'38", long 79°45'48", Montgomery County, at bridge on State Highway 27, 0.5 mile upstream from mouth, and 1 mile northeast of Biscoe.	a1.4	1971	5-17-72	.33
Big Buffalo Creek 02101524	Deep River	Lat 35°29'19", long 79°12'08", Lee County, at bridge on Secondary Road 1100, 1.0 mile upstream from Skunk Creek, and 1.5 miles west of Sanford.		1970	5-17-72	5.52
Big Buffalo Creek 02101539	Deep River	Lat 35°30'40", long 79°12'12", Lee County, at bridge on Secondary Road 1405, 2.5 miles downstream from Skunk Creek, and 3 miles southwest of Colon.	a12	1970	5-17-72	9.72
Big Buffalo Creek 02101552	Deep River	Lat 35°32'34", long 79°13'19", Lee County, at bridge on Secondary Road 1403, 0.9 mile upstream from mouth, and 1.2 miles southeast of Cummock.	a20	1954, 1962, 1970	5-17-72	10.6
Kenneth Branch 02102384	Neal Creek	Lat 35°34'14", long 78°47'04", Wake County, at bridge on Secondary Road 2770, 1.1 miles southeast of Fuquay Springs, and 1.8 miles upstream from mouth.		1970	5-18-72	.95
Kenneth Branch 02102457	Neal Creek	Lat 35°32'01", long 78°47'41", Harnett County, at bridge on Secondary Road 1415, 2.2 miles northeast of Chalybeate, and 2.6 miles upstream from mouth.	a14	1955, 1970	5-18-72	5.66
Waccamaw River basin						
Brown Marsh Swamp 02108994	Brown Marsh	Lat 34°31'32", long 78°38'57", Bladen County, at culvert on U. S. Highway 701, 0.2 mile upstream from Whites Creek, and 2.7 miles north of Clarkton.		1971	5-17-72	1.18

a Estimated.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Waccamaw River basin--Continued						
Big Foot Branch 02109054	Brown Marsh Swamp	Lat 34°28'19", long 78°38'34", Bladen County, 0.1 mile downstream from sewage outfall at Clarkton Waste Treatment Plant, 0.3 mile upstream from mouth, and 1.3 miles southeast of Clarkton.		1971	5-17-72	0.28
Soules Swamp 02109184	White Marsh	Lat 34°19'33", long 78°48'44", Columbus County, at culvert on U. S. Highways 74 and 76, 0.2 mile upstream from Horsepen Branch, and 0.7 mile northeast of Chadbourn.		1959, 1971	5-17-72	.22
Horsepen Branch 02109224	Soules Swamp	Lat 34°19'05", long 78°49'15", Columbus County, at downstream side of culvert on Secondary Road 1317, 0.5 mile southeast of Chadbourn, and 0.8 mile upstream from mouth.		1971	5-17-72	.03
Soules Swamp 02109244	White Marsh	Lat 34°19'27", long 78°47'58", Columbus County, at culvert on Secondary Road 1005, 1.6 miles east of Chadbourn, and 1.7 miles upstream from Juniper Creek.	2.85	1971	5-17-72	.28
Pine Log Branch 02109294	Soules Swamp	Lat 34°20'40", long 78°45'08", Columbus County, at bridge on Secondary Road 1435, 2.8 miles west of Whiteville, and 3.1 miles upstream from mouth.		1971	5-17-72	.19
Pine Log Branch 02109296	Soules Swamp	Lat 34°20'09", long 78°43'51", Columbus County, at bridge on U. S. Highway 74, 1 mile north of Pine Log, and 1.8 miles upstream from mouth.	8.30	1971	5-17-72	e.50
Richardson Swamp 02109345	White Marsh	Lat 35°17'17", long 78°42'39", Columbus County, at culvert on Old State Highway 120, 0.5 mile west of Brunswick, and 0.9 mile upstream from Richardson Millpond.		1971	5-17-72	.30
Richardson Swamp tributary 02109365	Richardson Swamp	Lat 34°17'36", long 78°41'44", Columbus County, at culvert on Secondary Road 1951, 0.3 mile upstream from mouth, and 0.6 mile northeast of Brunswick.		1971	5-17-72	.10
Town Canal 02109772	Grissett Swamp	Lat 34°08'56", long 78°51'28", Columbus County, 0.2 mile downstream from sewage outfall at Tabor City's Waste Treatment Plant, 0.3 mile upstream from mouth, and 0.9 mile east of Tabor City.		1971	5-16-72	.15
Skeebo Branch 02109779	Grissett Swamp	Lat 34°07'56", long 78°52'35", Horry County, S. C., at culvert on U. S. Highway 701, 1.5 miles south of Tabor City, N. C., and 2.0 miles upstream from mouth.		1971	5-16-72	.16
Grissett Swamp 02109821	Seven Creeks	Lat 34°08'55", long 78°46'56", Columbus County, at bridge on Secondary Road 1005, 1.0 mile north of Ironhill, and 2.8 miles upstream from Toms Fork.	a22	1959, 1971	5-16-72	2.82
Pee Dee River basin						
Yadkin River 02110826	Pee Dee River	Lat 36°04'08", long 81°35'08", Caldwell County, at bridge on Secondary Road 1372, at Finley, and 0.5 mile upstream from Jackson Camp Creek.	a11	1970-71	6-16-72	15.0
Buffalo Creek 02111084	Yadkin River	Lat 36°01'40", long 81°30'45", Caldwell County, at bridge on Secondary Road 1505, 1.0 mile downstream from Licklog Branch, and 1.0 mile northwest of Yadkin Valley.	32.3	1963, 1970-71	6-16-72	42.9
Yadkin River 02111119	Pee Dee River	Lat 36°02'12", long 81°28'37", Caldwell County, at bridge on State Highway 268, 0.1 mile downstream from Hawkins Creek, and 0.9 mile northeast of Yadkin Valley.		1970-71	6-16-72	104
Elk Creek 0211115555	Yadkin River	Lat 36°12'10", long 81°33'39", Watauga County, at bridge on Secondary Road 1510, and 0.2 mile west of Triplett.			6-18-72	5.25
Elk Creek 0211115560	Yadkin River	Lat 36°12'01", long 81°32'58", Watauga County, at bridge at intersection of Secondary Roads 1508 and 1570, 0.8 mile upstream from influx of Camp Branch, 1.1 miles northwest of Hodgetown, and 12 miles upstream from mouth.			6-18-72	8.82
Yadkin River 02111192	Pee Dee River	Lat 36°07'43", long 80°22'02", Wilkes County, at bridge on State Highway 268, 0.2 mile east of Ferguson, and 1.2 miles upstream from Beaver Creek.	a180	1961, 1963, 1970-71	6-16-72	229
Cub Creek 02112007	Yadkin River	Lat 36°08'44", long 81°08'33", Wilkes County, at bridge on Secondary Road 2460, 0.6 mile east of Wilkesboro, and 1.0 mile upstream from Little Cub Creek.		1970-71	6-15-72	17.0

a Approximately.
e Estimated.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Pee Dee River basin--Continued						
Mulberry Creek 02112040	Yadkin River	Lat 36°11'30", long 81°06'48", Wilkes County, at bridge on State Highway 268, 1.0 mile upstream from mouth, and 1.2 miles east of North Wilkesboro.	a43	1952-58, 1963, 1970-71	6-15-72	62.2
Long Creek 02112052	Mulberry Creek	Lat 36°11'24", long 81°08'52", Wilkes County, at culvert on Secondary Road 1973, 1.7 miles north of North Wilkesboro, and 2.7 miles upstream from mouth.		1970-71	6-15-72	.04
Long Creek 02112054	Mulberry Creek	Lat 36°10'48", long 81°08'01", Wilkes County, at culvert on State Highway 268, 1.1 miles north of North Wilkesboro, and 1.9 miles upstream from mouth.		1970-71	6-15-72	1.57
Long Creek 02112056	Mulberry Creek	Lat 36°11'12", long 81°06'53", Wilkes County, at bridge on Secondary Road 2334, 0.1 mile upstream from mouth, and 2.6 miles northeast of North Wilkesboro.		1970-71	6-15-72	2.53
Elkin River 02112245	Yadkin River	Lat 36°16'31", long 80°53'05", Wilkes County, at bridge on Secondary Road 2044, 1.6 miles north of West Elkin, and 3.2 miles upstream from mouth.		1970-71	6-15-72	37.9
Elkin River 02112248	Yadkin River	Lat 36°15'09", long 80°51'48", Surry County, at foot of bridge in Memorial Park, 0.3 mile upstream from mouth, and 0.4 mile west of Elkin.		1970-71	8-14-72	53.5
Dutchmans Creek 02112251	Yadkin River	Lat 36°14'46", long 80°49'51", Surry County, at bridge on State Highway 268, 0.2 mile upstream from mouth, and 1.0 mile east of Elkin.		1970-71	8- 9-72	.90
Yadkin River 02112397	Pee Dee River	Lat 36°16'04", long 80°42'50", Surry County, at bridge on U. S. Highway 601, 0.1 mile south of Crutchfield, and 1.2 miles upstream from Fisher River.	a1,010	1970-71	8- 9-72	1,600
Fisher River tributary 02112613	Fisher River	Lat 36°23'26", long 80°43'05", Surry County, 60 ft upstream from Lagoon effluent outfall, 600 ft southeast of Secondary Road 1100, and 0.5 mile southeast of Dobson.		1970-71	8-14-72	.20
Fisher River tributary 02112614	Fisher River	Lat 36°22'41", long 80°41'48", Surry County, at end of Secondary Road 2249, 0.6 mile upstream from mouth, and 2.0 miles southeast of Dobson.		1970-71	8-14-72	1.15
Fisher River 02112996	Yadkin River	Lat 36°21'24", long 80°40'49", Surry County, at bridge on Secondary Road 2222, 0.5 mile downstream from Beaver Creek, and 4.0 miles southeast of Dobson.		1970-71	8-14-72	103
Cody Creek 02113108	Fisher River	Lat 36°22'00", long 80°43'11", Surry County, at bridge on Secondary Road 1104, 1.0 mile downstream from Kick Shin Creek, and 2.0 miles south of Dobson.	a7.3	1963, 1970-71	8-14-72	6.76
Tanyard Creek 02113182	Yadkin River	Lat 36°14'25", long 80°42'58", Yadkin County, at bridge on Secondary Road 1367, less than 0.1 mile downstream from Fork in Tanyard Creek, and 0.7 mile northwest of Boonville.		1970-71	8- 9-72	.28
Tanyard Creek 02113186	Yadkin River	Lat 36°15'04", long 80°40'50", Yadkin County, at bridge on Secondary Road 1367, 1.0 mile upstream from mouth, and 1.8 miles northeast of Boonville.	a1.9	1970-71	8-18-72	1.74
Yadkin River 02113500	Pee Dee River	Lat 35°16'42", long 80°33'18", Surry County, at bridge on Secondary Road 1003, at Siloam, and 75 ft upstream from Hagan Creek.	1,220	1952-56, 1970-71	8-18-72	1,300
Ararat River 02113576	Yadkin River	Lat 36°33'12", long 80°34'07", Surry County, at bridge on State Highway 104, 2.1 miles northeast of Salem, and 2.2 miles upstream from Johnson Creek.	36.2	1970-71	8-11-72	44.6
Ararat River 02113620	Yadkin River	Lat 36°30'08", long 80°36'02", Surry County, at bridge on State Highway 103, at Mt. Airy, and 1.7 miles downstream from Champ Creek.	65.5	1925, 1947, 1952-58, 1963, 1970-71	8-11-72	80.1
Ararat River 02113642	Yadkin River	Lat 36°28'49", long 80°35'54", Surry County, at bridge on U. S. Highway 52 bypass, 0.1 mile upstream from Cane Branch, and 1.4 miles southeast of Mt. Airy.		1970-71	8-11-72	89.9
Cane Branch 02113643	Ararat River	Lat 36°28'56", long 80°35'04", Surry County, at culvert on U. S. Highway 52, 0.9 mile upstream from mouth, and 1.8 miles southeast of Mt. Airy.		1970-71	8-10-72	1.13
Lovills Creek 02113654	Ararat River	Lat 36°32'31", long 80°37'33", Surry County, at bridge on Secondary Road 1700, 2.7 mile upstream from Short Town Branch, and 3 miles north of Mt. Airy.	27.0	1970-71	8-11-72	36.2

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Pee Dee River basin--Continued				
Lovills Creek 02113661	Ararat River	Lat 36°29'42", long 80°37'08", Surry County, at bridge on State Highway 89, at Mt. Airy, and 2.6 miles upstream from mouth.	33.9	1970-71	8-11-72	35.7
Lovills Creek 02113681	Ararat River	Lat 36°29'06", long 80°36'49", Surry County, at bridge on U. S. Highway 601, at Mt. Airy, and 1.8 miles upstream from mouth.	35.1	1955, 1963, 1970-71	8-11-72	37.2
Ararat River 02113792	Yadkin River	Lat 36°27'51", long 80°35'34", Surry County, at Mt. Airy Dam No. 1, 1.0 mile upstream from Rutledge Creek, and 2.5 miles south of Mt. Airy.	a200	1970-71	8-18-72	191
Stony Creek 02113832	Ararat River	Lat 36°26'43", long 80°33'23", Surry County, at bridge on Secondary Road 2012, 2.8 miles upstream from mouth, and 4.7 miles southeast of Mt. Airy.		1970-71	8-10-72	3.19
Stony Creek 02113833	Ararat River	Lat 36°26'32", long 80°34'35", Surry County, at bridge on Secondary Road 2015, 1.4 miles upstream from mouth, and 4.4 miles southeast of Mt. Airy.		1970-71	8-10-72	5.30
Heatherly Creek 02113926	Toms Creek	Lat 36°22'41", long 80°29'52", Surry County, at bridge on State Highway 268, 0.8 mile southwest of Pilot Mountain, and 1.8 miles upstream from mouth.	1.00	1970-71	8-18-72	.27
Toms Creek 0211395955	Ararat River	Lat 36°23'29", long 80°30'47", Surry County, at bridge on Secondary Road 1315, 0.5 mile downstream from Heatherly Creek, and 2.5 miles west of Pilot Mountain.	a33	1970-71	8-10-72	22.8
Yadkin River 02115051	Pee Dee River	Lat 36°12'58", long 80°25'57", Forsyth County, at bridge on State Highway 67, 0.8 mile south of Donnaha, and. 3.5 miles upstream from Fries Creek.			5-31-72	3,080
North Deep Creek tributary 0211559755	North Deep Creek	Lat 36°12'32", long 80°41'29", Yadkin County, at bridge on Secondary Road 1513, 0.1 mile upstream from mouth, and 1.9 miles southeast of Boonville.		1970-71	8- 9-72	1.12
Yadkin River 02115674	Pee Dee River	Lat 36°00'31", long 80°25'22", Forsyth County, at bridge on U. S. Highway 158, 2.0 miles southwest of Clemmons, and 1.0 mile downstream from Blanket Creek.	a1,920	1970-71	8-21-72	1,590
Grassy Creek 02115731	Mill Creek	Lat 36°11'37", long 81°17'37", Forsyth County, at bridge on Secondary Road 1669, 0.8 mile southwest of Stanleyville, and 1.6 miles upstream from mouth.		1970-71	8-21-72	1.82
Little Creek 02115802	Muddy Creek	Lat 36°03'14", long 80°19'43", Forsyth County, at bridge on Secondary Road 1126, 1.3 miles northwest of Frontis, and 3.4 miles upstream from mouth.		1970-71	8-21-72	1.58
Little Creek 02115804	Muddy Creek	Lat 36°04'04", long 80°19'43", Forsyth County, at bridge on Secondary Road 1122, 0.7 mile west of Atwood, and 1.8 miles upstream from mouth.		1970-71	8-21-72	2.32
Muddy Creek 02115820	Yadkin River	Lat 36°01'28", long 80°21'16", Forsyth County, at bridge on U. S. Highway 158, 0.2 mile downstream from Little Creek, and 1.1 miles east of Clemmons.	105	1949-57, 1959, 1961-63, 1968, 1970-71	8-21-72	52.8
Salem Creek 02115826	Muddy Creek	Lat 36°06'58", long 80°05'37", Forsyth County, at Kernersville's water treatment plant upstream from sewage effluent outfall, 1.3 miles southwest of Kernersville, and 2.8 miles upstream from Kerners Mill Creek		1970-71	8-22-72	.10
Salem Creek 02115827	Muddy Creek	Lat 36°07'24", long 80°05'52", Forsyth County, 0.6 mile southwest of dam on Salem Creek tributary at end of Secondary Road 2650, 1.4 miles west of Kernersville, and 2.3 miles upstream from Kerners Mill Creek.		1970-71	8-22-72	.76
Salem Creek 02115852	Muddy Creek	Lat 36°03'18", long 80°17'09", Forsyth County, at bridge on Ebert Road, 0.6 mile upstream from Burke Creek, 2.0 miles north of Five Points.	57.4	1970-71	8-21-72	23.1
Salem Creek 02115857	Muddy Creek	Lat 36°01'52", long 80°18'50", Forsyth County, at bridge on Secondary Road 1120, 3.0 miles upstream from mouth, and 5 miles southwest of Winston-Salem.	66.2	1968,	8-22-72	55.9

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Pee Dee River basin-Continued				
Salem Creek 02115858	Muddy Creek	Lat 36°00'31", long 80°20'07", Forsyth County, at bridge on Secondary Road 2991, 0.5 mile upstream from mouth, and 2.2 miles northeast of Muddy Creek	69.5	1968, 1970-71	8-21-72	69.4
Swain Creek 02115865	South Fork Muddy Creek	Lat 36°03'26", long 80°08'47", Forsyth County, at culvert on U. S. Highway 311, 0.1 mile upstream from mouth, and 1.6 miles northwest of Union Cross.		1970-71	8-22-72	.84
South Fork Muddy Creek 02115866	Muddy Creek	Lat 36°02'41", long 80°10'06", Forsyth County, at bridge on Secondary Road 2643, 0.3 mile upstream from Sawmill Branch, and 2.8 miles southeast of Easton View.	a4.1	1970-71	8-22-72	2.16
Leak Creek 02115888	South Fork Muddy Creek	Lat 36°00'00", long 80°14'59", Forsyth County, at culvert on Secondary Road 2931, 1.9 miles upstream from mouth, and 2.1 miles south of Union Ridge.		1970-71	8-22-72	.73
Elisha Creek 02117012	Dutchmans Creek	Lat 36°54'11", long 80°30'58", Davie County, at bridge on Secondary Road 1600, 1.2 miles upstream from mouth, and 2.8 miles northeast of Mocksville.	a8.7	1963, 1970-71	8-15-72	3.36
Leonards Creek 02117013	Dutchmans Creek	Lat 35°52'39", long 80°30'37", Davie County, at culvert on U. S. Highway 64, 0.8 mile upstream from mouth, and 2.8 miles east of Mocksville.		1970-71	8-22-72	2.19
Dutchmans Creek 02117022	Yadkin River	Lat 35°50'18", long 80°28'41", Davie County, at bridge on State Highway 801, 1.2 miles upstream from mouth, and 2.8 miles southwest of Fork.	a130	1970-71	8-15-72	46.4
Greasy Creek 02117090	South Yadkin River	Lat 35°55'08", long 80°05'12", Alexander County, at bridge on Secondary Road 1001, 1.2 miles north of Hiddenite, and 2.2 miles upstream from mouth.	a15	1956, 1963, 1967-71	6-16-72	19.4
South Yadkin River 02117132	Yadkin River	Lat 35°53'50", long 81°03'24", Alexander County, at bridge on Secondary Road 1456, 1.2 miles downstream from Greasy Creek, and 2.0 miles east of Hiddenite.	a54	1963, 1970-71	6-16-72	47.8
South Yadkin River 02118251	Yadkin River	Lat 35°50'01", long 80°39'56", Davie County, at bridge on Secondary Road 1142, 2.0 miles upstream from Hunting Creek, and 4.0 miles northwest of Cooleemee.	a320	1963, 1970-71	8-14-72	159
Bear Creek 02118794	South Yadkin River	Lat 35°53'01", long 80°35'19", Davie County, at bridge on U. S. Highway 64, 1.0 mile southeast of Center, and 5.1 miles upstream from Baxter Creek.		1970-71	8-14-72	5.51
Bear Creek 02118910	South Yadkin River	Lat 35°52'24", long 80°34'36", Davie County, at bridge on Secondary Road 1139, 1.5 miles southwest of Mocksville, and 4.5 miles upstream from mouth.	a23	1952-58, 1963, 1970-71	8-14-72	6.01
South Yadkin River 02119000	Yadkin River	Lat 35°48'10", long 80°33'22", Davie County, at Cooleemee, upstream from State Highway 801, 2.5 miles upstream from Third Ceeek, and 7.2 miles upstream from mouth.	569	1928-65, 1970-71	8-22-73	397
Third Creek 0211929010	South Yadkin River	Lat 35°53'12", long 81°05'04", Alexander County, at bridge on Secondary Road 1632, 1.3 miles southeast of Hiddenite, and 3.8 miles upstream from county line.	a3.2	1970-71	6-16-72	3.74
Third Creek 02119431	South Yadkin River	Lat 35°46'32", long 80°56'40", Iredell County, at bridge on U. S. Highways 64 and 70, 1.3 miles downstream from Interstate Highway 40 bridge, and 3.2 miles west of Statesville.		1970-71	7-17-72	22.8
Third Creek 02119435	South Yadkin River	Lat 35°44'45", long 80°55'18", Iredell County, at bridge on Secondary Road 1004, 3.5 miles north of Barium Springs, and 5.5 miles upstream from Duck Creek.	a29	1963-71	7-17-72	26.3
Third Creek 02119437	South Yadkin River	Lat 35°45'06", long 80°53'29", Iredell County, at bridge on State Highway 115, 1.7 miles upstream from Duck Creek, and 2.4 miles south of Statesville.		1970-71	7-17-72	37.0
Third Creek 02119439	South Yadkin River	Lat 35°44'46", long 80°51'38", Iredell County, at bridge on Interstage Highway 77, 1.1 miles upstream from Duck Creek, and 3.2 miles southeast of Statesville.		1970-71	7-17-72	41.9
Morrison Creek tributary 02120605	Morrison Creek	Lat 35°48'20", long 80°54'26", Iredell County, at culvert on State Highway 115, 1.1 miles upstream from mouth, and 1.6 miles northwest of Statesville.		1970-71	7-17-72	2.19

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Pee Dee River basin--Continued				
Fourth Creek 02120606	South Yadkin River	Lat 35°48'14", long 80°51'42", Iredell County, at bridge on Interstate Highway 77, 1.2 miles downstream from Morrison Creek, and 2.1 miles northeast of Statesville.		1970-71	7-17-72	25.3
Fourth Creek 0212060645	South Yadkin River	Lat 35°47'22, long 80°50'00", Iredell County, at bridge on Secondary Road 2320, 3.2 miles east of Statesville, and 3.4 miles downstream from Morrison Creek.		1970-71	7-17-72	38.5
Fourth Creek 0212060665	South Yadkin River	Lat 35°46'34", long 80°47'45", Iredell County, at bridge on Secondary Road 2316, 2.3 miles south of Vance, and 5.9 miles downstream from Morrison Creek.		1970-71	7-17-72	43.6
South Yadkin River 02120668	Yadkin River	Lat 35°46'49", long 80°30'24", Davie County, at bridge on U. S. Highway 601, 1.5 miles downstream from Third Creek, and 4 miles north of Franklin.	a760	1968-71	11-16-71 5-13-72 9- 6-72	750 996 976
Beaverdam Creek tributary 02120705	Beaverdam Creek	Lat 35°43'04", long 80°40'14", Rowan County, at culvert on Secondary Road 1741, 0.9 mile upstream from mouth, and 1.6 miles southeast of Cleveland.		1970-71	8-21-72	.04
North Second Creek 02120780	South Yadkin River	Lat 35°43'05", long 80°35'45", Rowan County, at bridge on U. S. Highway 70, 1.2 miles downstream from Withrow Creek, and 2.8 miles east of Barber.	a120	1949-57, 1961-63, 1970-71	8-15-72	48.2
Walnut Branch 02120784	North Second Creek	Lat 35°42'54", long 80°34'42", Rowan County, at culvert on U. S. Highway 70, 1.3 miles upstream from mouth, and 3.7 miles east of Barber.		1970-71	8-15-72	.52
South Branch Grants Creek tributary 02120848	South Branch Grants Creek	Lat 35°33'34", long 80°35'14", Rowan County, at bridge on Secondary Road 1197, 0.4 mile upstream from mouth, and 1.2 miles northeast of Landis.		1970-71	8-23-72	1.67
South Branch Grants Creek 02120852	Grants Creek	Lat 35°34'44", long 80°35'15", Rowan County, at culvert on State Highway 152, 0.8 mile northwest of China Grove, and 1.0 mile upstream from mouth.		1970-71	8-23-72	2.64
Grants Creek 02120879	Yadkin River	Lat 35°35'28", long 80°34'37", Rowan County, at bridge on Secondary Road 1506, 0.2 mile upstream from Fork in Grants Creek, and 1.4 miles north of China Grove.		1970-71	8-23-72	5.83
Grants Creek 02120881	Yadkin River	Lat 35°35'57", long 80°34'02", Rowan County, at bridge on Secondary Road 1505, 2 miles north of China Grove, and 15 miles upstream from mouth.		1970-71	8-23-72	6.75
Grants Creek tributary 02120891	Grants Creek	Lat 35°36'54", long 80°33'14", Rowan County, at bridge on Secondary Road 1500, 0.3 mile upstream from mouth, and 3.3 miles northeast of China Grove.		1970-71	8-23-72	.20
Grants Creek 02120898	Yadkin River	Lat 35°38'24", long 80°32'55", Rowan County, at bridge on Secondary Road 1516, 4.1 miles downstream from Grants Creek Fork, and 4.9 miles southwest of Salisbury.		1970-71	8-21-72	10.3
Grants Creek tributary No. 2 02120901	Grants Creek	Lat 35°38'21", long 80°31'39", Rowan County, at culvert on Secondary Road 1516, below sewage outfall from trailer park, 1.0 mile upstream from mouth, and 4.0 miles southwest of Salisbury.		1970-71	8-21-72	.08
Grants Creek 02120971	Yadkin River	Lat 35°42'25", long 80°26'10", Rowan County, at bridge on Secondary Road 1915, 1.5 miles upstream from mouth, and 1.5 miles north of Spencer.	a67	1948, 1963, 1970-71	8-15-72	27.9
North Potts Creek 02121181	High Rock Lake	Lat 35°45'07", long 80°19'17", Davidson County, at bridge on Secondary Road 1133, 0.4 mile southwest of Linwood, and 2.0 miles upstream from mouth.	10.0	1955, 1961-62, 1971	9-21-72	2.57
Abbotts Creek 0212141355	Yadkin River	Lat 36°06'36", long 80°04'29", Forsyth County, at bridge over sludge beds at Kernersville's Abbotts Creek waste treatment plant, 0.1 mile downstream from bridge on Interstate Highway 40, and 0.9 mile south of Kernersville.		1970-71	8-22-72	.12
Abbotts Creek 02121414	Yadkin River	Lat 36°05'45", long 80°04'15", Forsyth County, at bridge on Secondary Road 2640, 0.8 mile downstream from sewage outfall, and 1.9 miles northeast of Mathis.	a1.4	1970-71	8-22-72	.42

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Pee Dee River basin--Continued						
Rich Fork 02121468	Abbotts Creek	Lat 35°56'56", long 80°06'08", Davidson County, at bridge on Secondary Road 1755, 4.5 miles east of Wallburg, and 4.8 miles upstream from Hunts Fork.	9.83	1952-53, 1961-62, 1970-71	8-22-72	0.47
Rich Fork 0212147355	Abbotts Creek	Lat 35°55'36", long 80°07'31", Davidson County, at bridge on Secondary Road 1800, 1.4 miles downstream from High Point sewage disposal plant, and 3.9 miles northwest of Thomasville.		1970-71	8-22-72	3.42
Dye Branch 02123844	Rocky River	Lat 35°32'14", long 80°47'41", Iredell County, at culvert on Secondary Road 1147, 1.5 miles upstream from mouth, and 3.2 miles south of Mooresville.	a2.9	1970-71	7-18-72	9.75
Rocky River 02133881	Pee Dee River	Lat 35°28'28", long 80°46'47", Mecklenburg County, at bridge 1.3 miles upstream from West Branch, and 4.2 miles southeast of Davidson.	13.4	1970-71	7-22-72	13.0
Rocky River 0212418255	Pee Dee River	Lat 35°20'06", long 80°37'41", Cabarrus County, at bridge on Secondary Road 1304, 1.1 miles north of Harrisburg, and 1.7 miles downstream from Mallard Creek.		1970-71	7-18-72	44.0
Irish Buffalo Creek 02124337	Rocky River	Lat 35°32'25", long 80°38'32", Rowan County, at bridge on Secondary Road 1197, and 1.6 miles northwest of Landis.	a5.3	1961-62	8-21-72	13.8
Irish Buffalo Creek 0212433845	Rocky River	Lat 35°30'30", long 80°38'54", Rowan County, 0.1 mile downstream from Irish Buffalo Creek tributary, and 1.4 miles northwest of Kannapolis.		1970-71	8-21-72	15.2
Irish Buffalo Creek 0212434059	Rocky River	Lat 35°29'16", long 80°39'13", Cabarrus County, at bridge on Secondary Road 1609, 1.8 miles downstream from Buffalo Creek tributary, and 1.8 miles west of Kannapolis.		1970-71	8-21-72	18.0
Irish Buffalo Creek 02124341	Rocky River	Lat 35°29'15", long 80°39'12", Cabarrus County, at bridge on Secondary Road 1609 on Pine Street, 2 miles southwest of Kannapolis, and 13 miles upstream from mouth.	15.7	1970-71	8-21-72	19.2
Irish Buffalo Creek 02124357	Rocky River	Lat 35°24'52", long 80°36'46", Cabarrus County, at bridge on Secondary Road 1394, 2.0 miles west of Concord, and 8.1 miles upstream from mouth.		1970-71	8-24-72	18.3
Irish Buffalo Creek 02124366	Rocky River	Lat 35°22'15", long 80°33'50", Cabarrus County, at bridge on State Highway 49, 2.8 miles southeast of courthouse in Concord, and 4.5 miles upstream from mouth.	40.3	1970-71	8-21-72	24.2
Irish Buffalo Creek 02124368	Rocky River	Lat 35°21'49", long 80°33'25", Cabarrus County, on Secondary Road 1153, 2.7 miles upstream from mouth, and 3 miles southeast of Concord.	42.2	1970-71	8-24-72	37.1
Long Creek 0212498650	Rocky River	Lat 35°18'32", long 80°13'49", Stanley County, 0.5 mile upstream from influx of Scaly Bark Creek, 4.4 miles upstream from mouth at Rocky River, and 4.6 miles southeast of Bloomington.			9-21-72	8.71
Santee River basin						
Catawba River 02136500	Santee River	Lat 35°37'29", long 82°10'28", McDowell County, at bridge on Secondary Road 1103, 0.5 mile upstream from Mill Creek, and 0.5 mile south of Old Fort.	13.9	1907, 1949-54, 1956, 1963-64, 1970-71	5-11-72 9-25-72	33.3 18.4
Catawba River tributary No. 2 02137345	Catawba River	Lat 35°37'46", long 82°10'08", McDowell County, at culvert on Interstate Highway 40, upstream from mouth and at Old Fort.		1970-71	5-11-72 9-25-72	4.55 4.42
Catawba River 02137348	Santee River	Lat 35°38'06", long 82°09'48", McDowell County, at garbage dump on Secondary Road 1234, 0.4 mile upstream from Curtis Creek, and 1.1 miles northeast of Old Fort.		1971	9-25-72	37.7
Curtis Creek 02137460	Catawba River	Lat 35°38'43", long 82°09'31", McDowell County, at bridge on U. S. Highway 70, 0.7 mile upstream from mouth, and 1.7 miles northeast of Old Fort.	a17	1930-31, 1949-54, 1956, 1963-64, 1970-71	5-11-72 9-25-72	46.8 9.65
Curtis Creek 02137465	Catawba River	Lat 35°38'18", long 82°09'30", McDowell County, at bridge on Interstate Highway 40, 0.2 mile upstream from mouth, and 1.5 miles northeast of Old Fort.		1970-71	5-11-72 9-25-72	46.0 10.0

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
Catawba River 02137513	Santee River	Lat 35°38'23", long 82°07'38", McDowell County, at bridge on Interstate Highway 40, 0.3 mile downstream from Brevard Creek, and 3.2 miles east of Old Fort.		1970	5-11-72 9-25-72	146 39.3
Jake Creek 02137723	Catawba River	Lat 35°40'48", long 82°04'00", McDowell County, at culvert on Secondary Road 1214, 0.4 mile upstream from mouth, and 0.8 mile southeast of Pleasant Gardens.		1970-71	5-11-72 9-25-72	1.25 .83
Jake Creek 02137724	Catawba River	Lat 35°40'58", long 82°03'58", McDowell County, 0.2 mile downstream from Secondary Road 1214, 0.2 mile upstream from mouth, and 0.7 mile southeast of Pleasant Gardens.		1970	5-11-72 9-25-72	1.56 .65
Catawba River 02137727	Santee River	Lat 35°41'09", long 82°03'40", McDowell County, at bridge on Secondary Road 1221, 0.8 mile upstream from Buck Creek, and 0.8 mile southeast of Pleasant Gardens.	127	1963, 1970-71	9- 2-71 5-11-72 9-25-72	117 277 92.8
North Fork Catawba River 02138051	Catawba River	Lat 35°48'04", long 82°01'07", McDowell County, at bridge on Secondary Road 1560, at Sevier, and 0.8 mile upstream from Armstrong Creek.	a44	1963, 1970-71	5-11-72 9-26-72	46.0 12.3
Armstrong Creek 0213806250	North Fork Catawba River	Lat 35°48'33", long 82°03'25", McDowell County, at bridge on State Highway 226A, 2.3 miles upstream from mouth, and 2.7 miles west of Sevier.			6-16-72	*33.6
Armstrong Creek 02138070	North Fork Catawba River	Lat 35°47'38", long 82°01'14", McDowell County, at bridge on Secondary Road 1556, upstream from mouth, and 0.7 mile southwest of Sevier.	a30	1956-63, 1970-71	5-11-72 9-26-72	57.0 18.1
Limekiln Creek 02138092	North Fork Catawba River	Lat 35°47'29", long 82°01'28", McDowell County, at bridge on Secondary Road 1556, 0.3 mile upstream from mouth, and 0.9 mile southwest of Sevier.	a3.8	1970	5-11-72 9-26-72	3.05 1.05
Limekiln Creek 02138095	North Fork Catawba River	Lat 35°47'35", long 82°01'08", McDowell County, at bridge on Secondary Road 1559, at mouth and at Sevier.		1970-71	5-11-72 9-26-72	7.62 4.60
North Fork Catawba River 02138103	Catawba River	Lat 35°47'31", long 82°00'56", McDowell County, 0.2 mile downstream from Limekiln Creek, and 0.8 mile south of Sevier.	a79	1970-71	5-11-72 9-26-72	148 33.4
Catawba River tributary No. 3 02138138	Catawba River	Lat 35°41'33", long 81°59'34", McDowell County, at culvert on U. S. Highway 70, at Marion, and 2.1 miles upstream from mouth.		1970-71	5-11-72 9-26-72	.33 .21
Catawba River tributary 02138139	Catawba River	Lat 35°42'27", long 81°59'49", McDowell County, 0.2 mile downstream from sewage treatment plant, 0.9 mile upstream from mouth, and 1.6 miles northeast of Marion.		1970-71	5-11-72 9-26-72	1.41 .78
Linville River 02138288	Catawba River	Lat 36°04'22", long 81°52'14", Avery County, at culvert on State Highway 105, at Linville, and 1.8 miles upstream from Grandmother Creek.		1970-71	5-18-72 9-27-72	23.6 3.78
Linville River 02138293	Catawba River	Lat 36°04'16", long 81°52'34", Avery County, at bridge on Secondary Road 1349, at Linville, and 1.6 miles upstream from Grandmother Creek.		1970-71	5-18-72 9-27-72	35.3 5.40
Linville River 02138306	Catawba River	Lat 36°01'44", long 81°53'47", Avery County, at bridge on U. S. Highway 221, at Pineola, and 0.7 mile downstream from Anthony Creek.		1970-71	5-18-72 9-27-72	75.2 8.87
Stacey Creek 0213829666	Linville River	Lat 36°00'29", long 81°53' 9", Avery County, at culvert at entrance to P. H. Hanes Knitting Co. on State Highway 181, 0.3 mile upstream from mouth, and 1.4 miles south of Pineola.		1970-71	5-18-72 9-27-72	4.27 1.05
Stacey Creek tributary 02138312	Stacey Creek	Lat 36°00'22", long 81°53'33", Avery County, at culvert on State Highway 181, upstream from mouth, and 1.5 miles south of Pineola.		1970-71	5-18-72 9-27-72	1.84 .58
Mill Timber Creek 02138340	Linville River	Lat 36°01'17", long 81°55'14", Avery County, at bridge on Secondary Road 1524, at Crossnore, and 0.7 mile upstream from mouth.	4.01	1970-71	5-18-72 9-27-72	10.0 2.69
Mill Timber Creek 02138439	Linville River	Lat 36°00'55", long 81°55'35", Avery County, at mouth, at Crossnore, and 0.4 mile downstream from Clark Branch.		1970-71	5-18-72 9-27-72	15.7 4.25
Linville River 02138443	Catawba River	Lat 36°00'13", long 81°56'09", Avery County, at bridge on Secondary Road 1536, 0.1 mile upstream from Bill White Creek, and 1.3 miles south of Crossnore.		1970-71	5-18-72 9-27-72	107 14.3
North Muddy Creek 02138606	Muddy Creek	Lat 35°38'10", long 81°57'22", McDowell County, at bridge on Secondary Road 1796, 0.8 mile upstream from Bobs Creek and 4.5 miles southeast of Marion.		1970-71	5-16-72 9-26-73	68.3 15.8

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
Youngs Fork Creek 02138645	North Muddy Creek	Lat 35°39'14", long 81°57'48", McDowell County, at bridge on private road, 0.3 mile upstream from Jacktown Creek, and 1.0 mile southeast of Jacktown.		1970-71	5-16-72 9-26-72	14.9 5.38
Youngs Fork Creek 02138671	North Muddy Creek	Lat 35°38'48", long 81°57'16", McDowell County, at bridge on Secondary Road 1794, 1.1 miles upstream from mouth, and 4.1 miles southeast of Marion.	8.11	1970-71	5-16-72 9-26-72	25.0 8.32
North Muddy Creek 02138674	Muddy Creek	Lat 35°38'41", long 81°56'27", McDowell County, at bridge on State Highway 226, downstream from Youngs Fork Creek, and 4.8 miles southeast of Marion.		1970-71	5-16-72 9-26-72	99.0 27.4
North Muddy Creek 02138720	Muddy Creek	Lat 35°40'30", long 81°54'25", McDowell County, at bridge on Secondary Road 1747, 1.9 miles downstream from Caleb Branch, and 3.2 miles southeast of Nebo.	44.6	1970-71	5-16-72	130
Muddy Creek 02138810	Catawba River	Lat 35°42'38", long 81°51'20", Burke County, at bridge on U. S. Highway 70, 0.5 mile south of Bridgewater, and 0.7 mile upstream from mouth.	97.8	1956	10-27-71 11-10-71 11-18-71	210 163 136
Silver Creek 02139256	Catawba River	Lat 35°44'09", long 81°42'45", Burke County, at bridge on U. S. Highway 70, 0.5 mile upstream from mouth, and 1 mile west of Morganton.	68.6	1955, 1970-71	5-18-72 9-29-72	104 5.62
Catawba River 02139282	Santee River	Lat 35°44'58", long 81°42'20", Burke County, at bridge on State Highway 181, 0.8 mile downstream from Silver Creek, 1 mile northwest of Morganton.	593	1968, 1970-71	3-15-72 9- 7-72	1,500 287
Catawba River 02139500	Catawba River	Lat 35°46'19", long 81°41'24", Burke County, at bridge on State Highway 18, 00 ft downstream from Warrior Fork, 2 miles north of Morganton, and 258 miles upstream from mouth of Wateree River.	683	1903-8	1-12-72	1,770
Hunting Creek 02139801	Catawba River	Lat 35°45'35", long 81°39'19", Burke County, at bridge on Secondary Road 1512, 2.1 miles northeast of Morganton, and 2.2 miles upstream from mouth.	23.5	1970-71	5-18-72 9-28-72	34.3 20.7
Hunting Creek 02139806	Catawba River	Lat 35°46'02", long 81°39'41", Burke County, at bridge on Secondary Road 1571, 1.1 miles upstream from mouth, and 2.1 miles northeast of Morganton.		1970-71	10-27-71 11-18-71 1-12-72 5-18-72 9-28-72	62.6 36.5 74.3 46.7 26.2
Johns River 02139977	Catawba River	Lat 35°58'24", long 81°41'18", Caldwell County, at bridge on Secondary Road 1356, and 3.5 miles north of Collettsville.			6-16-72 9-28-72	*58.2 34.1
Mulberry Creek 02140271	Johns River	Lat 35°55'17", long 81°40'19", Caldwell County, at mouth, 0.3 mile southeast of Collettsville.	41.6		6-16-72 9-28-72	*39.1 27.2
Johns River 02141000	Catawba River	Lat 35°47'34", long 81°40'38", Burke County, at bridge on State Highway 18, 1.5 miles upstream from mouth, and 3.2 miles north of Morganton.	209	1901-6, 1963,	11-10-71 11-18-71 11-30-71	423 294 368
Lower Creek 02141150	Catawba River	Lat 35°54'20", long 81°31'59", Caldwell County, at bridge on Mulberry Street, 0.2 mile downstream from Zacks Fork Creek, and 0.8 mile southeast of courthouse in Lenoir.	a32	1971	5-19-72 9-27-72	20.4 5.90
Blair Fork 02141180	Lower Creek	Lat 35°56'02", long 81°32'36", Caldwell County, upstream from bridge on Main Street, 0.4 mile upstream from Long Branch, and 1.3 miles north of courthouse in Lenoir.	5.83	1967-69	6-16-72 9-28-72	*5.36 2.89
Blair Fork 02141184	Lower Creek	Lat 35°55'39", long 81°32'39", Caldwell County, at bridge on old North Main Street, at Lenoir, 0.1 mile downstream from Long Branch, and 0.9 mile north of courthouse.			6-16-72 9-28-72	5.69 3.49
Lower Creek 02141188	Catawba River	Lat 35°53'42", long 81°33'39", Caldwell County, at bridge on Secondary Road 1188, downstream from Blair Fork, and 1.8 miles southwest of courthouse in Lenoir.		1970-71	5-19-72 9-27-72	56.0 17.7
Lower Creek 02141214	Catawba River	Lat 35°51'52", long 81°35'38", Caldwell County, at bridge on Secondary Road 1143, 0.3 mile southeast of Gamewell, and 1.9 miles downstream from Millers Creek.	60.9	1970-71	5-19-72 9-27-72	81.9 2.82
Lower Creek 02141245	Catawba River	Lat 35°49'31", long 81°38'10", Burke County, at bridge on Secondary Road 1501, 0.8 mile downstream from Husband Creek, and 7 miles northeast of Morganton.	86.6	1949-50, 1964-69	10-27-71 11-10-71 11-18-71 11-30-71	159 105 84.6 126

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Santee River basin--Continued				
Howard Creek 02141319	Catawba River	Lat 35°46'18", long 81°35'11", Burke County, at bridge on Secondary Road 1536, 1.0 mile upstream from mouth, and 1.4 miles northeast of Drexel.	3.08	1970-71	5-19-72 9-29-72	4.21 3.24
Howard Creek 02141334	Catawba River	Lat 35°46'26", long 81°34'56", Burke County, at bridge on Secondary Road 1512, 0.3 mile downstream from Secrets Creek, and 6.3 miles northeast of Morganton.	5.05	1970-71	10-27-71 11-18-71 11-30-71 1-12-72 5-19-72 9-29-72	8.35 4.57 6.76 10.9 7.70 5.27
McGalliard Creek 02141355	Catawba River	Lat 35°44'52", long 81°35'08", Burke County, at culvert on U. S. Highways 64 and 70, 0.9 mile upstream from Dye Creek, and 1.2 miles west of Valdese.		1970-71	5-18-72 9-29-72	5.97 2.87
McGalliard Creek 02141424	Catawba River	Lat 35°45'48", long 81°34'12", Burke County, at bridge on Secondary Road 1538, 0.9 mile north of Valdese, and 1.9 miles upstream from mouth.	7.36	1970-71	10-27-71 11-18-71 11-30-71 1-12-72 5-18-72 9-29-72	21.3 13.1 21.3 23.4 17.0 13.4
Hoyle Creek 02141455	Catawba River	Lat 35°45'38", long 81°32'59", Burke County, upstream from sewage effluent outfall, 1.4 miles northeast of Valdese, and 1.6 miles upstream from mouth.		1970-71	5-18-72 9-29-72	9.33 4.75
Hoyle Creek 02141456	Catawba River	Lat 35°45'42", long 81°32'58", Burke County, at bridge on Secondary Road 1546, 1.5 miles upstream from mouth, and 1.6 miles northeast of Valdese.		1970-71	10-27-71 11-18-71 5-18-72 9-29-72	9.75 4.78 10.9 5.72
Drowning Creek 02141515	Catawba River	Lat 35°43'40", long 81°28'36", Burke County, at culvert on U. S. Highway 64 and 70, 0.5 mile west of Icard, and 7.0 miles upstream from mouth.		1970-71	5-18-72 9-29-72	3.85 2.26
Drowning Creek tributary No. 2 02141538	Drowning Creek	Lat 35°43'38", long 81°26'48", Burke County, at bridge on Secondary Road 1623, 1.3 miles east Of Icard, and 1.6 miles upstream from mouth.		1970-71	5-18-72 9-29-72	2.16 1.24
Drowning Creek tributary No. 4 02141543	Drowning Creek tributary No. 3	Lat 35°43'38", long 81°26'22", Burke County, at culvert on U. S. Highways 64 and 70, 0.5 mile upstream from mouth, and 1.0 mile west of Hildebran.		1970-71	5-18-72 9-29-72	1.04 .48
Drowning Creek tributary No. 2 02141545	Drowning Creek	Lat 35°44'20", long 81°26'22", Burke County, at bridge on Secondary Road 1627, 0.6 mile upstream from mouth, and 2.5 miles west of Penelope.		1970-71	5-18-72 9-29-72	3.12 1.70
Drowning Creek tributary 02141548	Drowning Creek	Lat 35°43'38", long 81°25'12", Burke County, at bridge on Secondary Road 1630, 0.8 mile north of Hildebran, and 1.0 mile upstream from mouth.	.98	1970-71	5-19-72 9-29-72	1.42 .65
Drowning Creek 02141560	Catawba River	Lat 35°44'50", long 81°24'52", Burke County, at bridge on Secondary Road 1647, 1.5 miles upstream from mouth, and 2.2 miles north of Hildebran.	a15	1957-64, 1970-71	5-19-72	21.8
Fry Creek 02141618	Catawba River	Lat 35°44'48", long 81°21'40", Catawba County, at culvert on Secondary Road 1314, at Hickory, and 1.9 miles upstream from mouth.		1970-71	5-19-72	3.36
Gunpowder Creek 02141634	Catawba River	Lat 35°53'01", long 81°31'29", Caldwell County, at culvert on Secondary Road 1181, at Whitnel, and 0.3 mile upstream from unnamed tributary.		1970-71	5-19-72 9-28-72	.25 .20
Connelly Creek 02141652	Gunpowder Creek	Lat 35°51'58", long 81°31'04", Caldwell County, at bridge on Secondary Road 1165, 1.2 miles upstream from mouth, and 1.8 miles northwest of Hudson.		1970-71	5-19-72 9-28-72	2.38 .90
Connelly Creek 02141654	Gunpowder Creek	Lat 35°51'47", long 81°30'26", Caldwell County, at bridge on U. S. Highway 321-A, 0.5 mile upstream from mouth, and 1.2 miles north of Hudson.		1970-71	5-19-72 9-28-72	4.05 1.78
Gunpowder Creek 02141666	Catawba River	Lat 35°51'20", long 81°29'12", Caldwell County, at bridge on Secondary Road 1160, 1.0 mile northeast of Hudson, and 6.5 miles upstream from Little Gunpowder Creek.	a11	1955, 1963, 1970-71	5-19-72 9-28-72	14.4 5.07
Falling Creek 02141851	Catawba River	Lat 35°47'45", long 81°18'50", Catawba County, at bridge on Secondary Road 1402, 1.4 miles upstream from mouth, and 4.0 miles northeast of Hickory.		1970-71	5-10-72 5-16-72 5-19-72	5.18 8.64 5.54

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
Falling Creek 02141853	Catawba River	Lat 35°47'16", long 81°18'24", Catawba County, at bridge on Secondary Road 1400, 0.8 mile upstream from mouth, and 4.2 miles north of Hickory.	a5.0	1963, 1970-71	5-10-72 5-16-72 5-19-72	12.4 19.2 10.8
Muddy Fork Creek 02142032	Lower Little River	Lat 35°56'50", long 81°11'08", Alexander County, at bridge on Secondary Road 1409, 1.8 miles northwest of Taylorsville, and 3 miles upstream from mouth.	5.6	1963, 1970-71	5-19-72 9-25-72	13.6 3.97
Muddy Fork Creek 02142043	Lower Little River	Lat 35°56'02", long 81°11'22", Alexander County, at bridge on State Highway 16, 1.2 miles northwest of Taylorsville, and 2.0 miles upstream from mouth.		1970-71	5-19-72 9-25-72	19.6 6.12
Stirewalt Creek 02142219	Lower Little River	Lat 35°54'44", long 81°10'46", Alexander County, downstream from sewage effluent outfall, 1.1 miles south of Taylorsville, and 2.8 miles upstream from mouth.	1.16	1970-71	5-19-72 9-29-72	1.50 1.45
Stirewalt Creek 02142272	Lower Little River	Lat 35°53'48", long 81°11'02", Alexander County, at bridge on Secondary Road 1111, 1.8 miles upstream from mouth, and 2.0 miles south of Taylorsville.	1.57	1970-71	5-19-72 9-25-72	2.33 1.07
Lower Little River 02142326	Catawba River	Lat 35°51'56", long 81°12'24", Alexander County, at bridge on Secondary Road 1131, 1.1 miles downstream from Stirewalt Creek, and 1.7 miles northwest of Millersville.	79.4	1970-71	5-18-72 9-28-72	148 45.8
Glade Creek 02142380	Lower Little River	Lat 35°51'24", long 81°10'50", Alexander County, at bridge on Secondary Road 1131, at Millersville, and 0.2 mile upstream from mouth.	a13	1956-63, 1970-71	5-19-72 9-25-72	23.4 6.93
Lyle Creek 02142442	Catawba River	Lat 35°43'53", long 81°15'59", Catawba County, at bridge on Secondary Road 1441, 1.2 miles upstream from tributary, and 3.3 miles northwest of Conover.		1970-71	5-19-72 9-25-72	1.87 1.04
Lyle Creek 02142443	Catawba River	Lat 35°43'36", long 81°14'34", Catawba County, at bridge on Secondary Road 1491, just downstream from tributary, and 2.4 miles northwest of Conover.		1970-71	5-19-72 9-26-72	6.62 2.31
Lyle Creek 02142445	Catawba River	Lat 35°44'14", long 81°11'16", Catawba County, at bridge on State Highway 16, upstream from Lyle Creek tributary, and 2.8 miles northeast of Conover.	a19	1963, 1970-71	5-18-72 9-26-72	26.9 5.28
Bakers Creek 02142446	Lyle Creek	Lat 35°45'02", long 81°10'26", Catawba County, at bridge on State Highway 16, 0.2 mile upstream from mouth, and 4.0 miles northeast of Conover.	a5.6	1963, 1970-71	5-18-72 9-26-72	10.4 4.12
Lyle Creek 02142447	Catawba River	Lat 35°44'27", long 81°09'35", Catawba County, at bridge on Secondary Road 1709, just downstream from tributary, and 4.7 miles northeast of Conover.		1970-71	5-18-72 9-26-72	48.3 9.76
Mull Creek 02142450	Lyle Creek	Lat 35°43'20", long 81°09'34", Catawba County, at bridge on Secondary Road 1715, 0.8 mile northwest of Claremont, and 1.8 miles upstream from mouth.		1970-71	5-18-72 9-26-72	5.21 1.85
Lyle Creek 02142451	Catawba River	Lat 35°44'20", long 81°07'52", Catawba County, at bridge on Secondary Road 1716, 0.2 mile downsteam from Mull Creek, and 1.7 miles northeast of Claremont.		1970-71	5-18-72 9-26-72	69.1 18.8
Long Creek 02142461	McLin Creek	Lat 35°41'58", long 81°11'12", Catawba County, at culvert on Secondary Road 1771, 1.8 miles east of Conover, and 2.4 miles upstream from mouth.			5-18-72 9-26-72	1.99 .74
McLin Creek 02142467	Lyle Creek	Lat 35°41'18", long 81°11'56", Catawba County, at bridge on Secondary Road 1739, 1.8 miles southeast of Conover, and 4.5 miles from Long Creek.		1970-71	5-18-72 9-26-72	5.83 2.06
McLin Creek 02142471	Lyle Creek	Lat 35°41'40", long 81°08'50", Catawba County, at bridge on Secondary Road 1722, 1.2 miles upstream from Hagan Fork, and 1.2 miles south of Claremont.	a9.9	1963, 1970-71	6-12-72 9-26-72	8.56 5.52
Ball Creek 02142530	Catawba River	Lat 35°41'54", long 81°02'19", Catawba County, at bridge on Secondary Road 1831, 2.6 miles southeast of Catawba, and 2.9 miles upstream from mouth.		1970-71	6-12-72 9-27-72	13.9 5.98
Norwood Creek 02142537	Catawba River	Lat 35°39'49", long 80°56'06", Iredell County, at bridge on Secondary Road 1322, 3.1 miles upstream from mouth, and 3.6 miles southwest of Troutmans.		1970-71	8- 8-72	2.76

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
McDowell Creek 02142652	Catawba River	Lat 35°26'37", long 80°52'40", Mecklenburg County, at bridge on Secondary Road 2145, 0.2 mile upstream from tributary, and 4.2 miles southwest of Davidson.		1970-71	9- 8-72	0.55
Terrance Creek 02142658	McDowell Creek	Lat 35°24'04", long 80°52'11", Mecklenburg County, at bridge on Secondary Road 2138, 1.5 miles upstream from mouth, and 1.7 miles west of Huntersville.		1969-71	9- 8-72	.95
McDowell Creek 02142660	Catawba River	Lat 35°23'22", long 80°55'16", Mecklenburg County, at bridge on Beatties Ford Road, 2.1 miles downstream from Torrence Creek, and 11.2 miles north of Charlotte.	26.3	1955-70	9- 8-72	3.57
Armstrong Branch 02142687	Dillinger Creek	Lat 35°26'14", long 81°07'42", Lincoln County, at culvert on Secondary Road 1358, 0.9 mile upstream from mouth, and 7.6 miles east of Lincolnton.		1970-71	8- 8-72	.74
Leepers Creek 02142689	Dutchmans Creek	Lat 35°26'34", long 81°06'18", Lincoln County, at bridge on Secondary Road 1360, 0.8 mile downstream from Dellinger Branch, and 2.9 miles east of Iron Station.	a23	1962, 1970-71	8- 8-72	32.9
Fites Creek tributary No. 2 02142860	Fites Creek	Lat 35°16'34", long 81°02'48", Gaston County, at culvert on Secondary Road 2032, at North Belmont, and 0.4 mile upstream from mouth.		1970-71	8-14-72	.03
Fites Creek tributary No. 2 02142861	Fites Creek	Lat 35°16'36", long 81°02'25", Gaston County, 0.2 mile upstream from mouth, and 0.8 mile west of North Belmont.	a.30	1970-71	8-14-72	.18
Dixon Branch 02142880	Long Creek	Lat 35°20'53", long 80°51'46", Mecklenburg County, at culvert on Secondary Road 2113, 0.2 mile upstream from mouth, and 2.2 miles west of Croft.		1969-71	9- 8-72	.45
McIntyre Creek 02142888	Long Creek	Lat 35°19'08", long 80°51'54", Mecklenburg County, at bridge on Beatties Ford Road, 3.3 miles upstream from mouth, and 4.3 miles northwest of Derita.	2.04	1969-71	9- 8-72	.34
McIntyre Creek 02142889	Long Creek	Lat 35°19'41", long 80°53'48", Mecklenburg County, at bridge on Secondary Road 2025, 0.8 mile upstream from mouth, and 5.0 miles north of Charlotte.		1969-71	9- 8-72	.48
Long Creek 02142910	Catawba River	Lat 35°18'53", long 80°56'38", Mecklenburg County, at bridge on State Highway 16, 1.0 mile upstream from Gum Branch, and 2.5 miles northwest of Thrift.	22.0	1956-57, 1959-67, 1969	9- 7-72	2.35
Gum Branch 02142913	Long Creek	Lat 35°17'54", long 80°56'04", Mecklenburg County, at bridge on Secondary Road 1785, 1.4 miles north of Thrift, and 1.5 miles upstream from mouth.		1969-71	9- 7-72	.10
Gum Branch 02142914	Long Creek	Lat 35°17'57", long 80°56'48", Mecklenburg County, at bridge on Secondary Road 1775, 0.6 mile upstream from mouth, and 1.7 miles northwest of Thrift.	5.39	1957, 1962, 1969-71	9- 7-72	.32
Long Creek 02142916	Catawba River	Lat 35°17'53", long 80°58'45", Mecklenburg County, at bridge on State Highway 27, 2.3 miles downstream from Gum Branch, and 3.0 miles northwest of Thrift.	32.2	1955, 1957, 1969-71	9- 7-72	3.54
Paw Creek 02142952	Catawba River	Lat 35°15'19", long 80°55'38", Mecklenburg County, at bridge on Secondary Road 1650, 1.7 miles southeast of Thrift.		1969-71	9- 7-72	.47
Paw Creek 02142955	Catawba River	Lat 35°14'58", long 80°58'15", Mecklenburg County, at bridge on Interstate Highway 85, 1.1 miles upstream from Ticer Branch, and 6.0 miles west of Charlotte.		1969-71	9- 7-72	1.60
Longview Creek 02143005	Henry Fork	Lat 35°43'24", long 81°22'32", Catawba County, at bridge on Secondary Road 1196, 0.8 mile southeast of Longview, and 1.6 miles upstream from mouth.		1970-71	9-29-72	.66
South Fork Catawba River 02143084	Catawba River	Lat 35°29'00", long 81°16'50", Lincoln County, 0.2 mile upstream from Clark Creek, and 1.5 miles northwest of Lincolnton.	a260	1970-71	3-29-72 6- 1-72	420 390
Clark Creek 02143105	South Fork Catawba River	Lat 35°42'36", long 81°16'48", Catawba County, at bridge on Secondary Road 1468, 2.8 miles upstream from Cline Creek, and 3.4 miles west of Conover.		1970-71	6-12-72 9-27-72	2.79 1.91
Bolicks Dry Branch 02143107	Clark Creek	Lat 35°42'42", long 81°16'30", Catawba County, at culvert on Secondary Road 1478, 0.3 mile upstream from mouth, and 3.9 miles east of Hickory.		1970-71	6-12-72 9-27-72	1.60 1.06

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
Clark Creek 02143109	South Fork Catawba River	Lat 35°41'50", long 81°16'08", Catawba County, at bridge on U. S. Highway 64, 1.6 miles upstream from Cline Creek, and 4.5 miles southeast of Hickory.	6.32	1970-71	6-12-72 9-27-72	4.27 5.30
Canover Branch 02143115	Cline Creek	Lat 35°42'08", long 81°13'52", Catawba County, upstream from Conover sewage effluent outfall, 0.8 mile upstream from mouth, and 1.0 mile west of Conover.		1970-71	6-12-72 9-27-72	.25 .25
Cline Creek 02143121	Clark Creek	Lat 35°41'14", long 81°15'08", Catawba County, at bridge on Secondary Road 1164, 0.8 mile upstream from mouth, and 2.4 miles southwest of Conover.		1970-71	6-12-72 9-27-72	5.02 2.65
Clark Creek 02143172	South Fork Catawba River	Lat 35°37'58", long 81°13'34", Catawba County, at bridge on Secondary Road 2014, 0.4 mile downstream from Town Creek, and 2.2 miles south of Newton.	30.1	1970-71	9-28-72	16.1
Clark Creek 02143176	South Fork Catawba River	Lat 35°35'24", long 81°16'04", Catawba County, at bridge on Secondary Road 2007, 0.5 mile upstream from Maiden Creek, and 1.5 miles northwest of Maiden.		1970-71	9-28-72	20.9
Maiden Creek 02143178	Clark Creek	Lat 35°35'12", long 81°11'32", Catawba County, at bridge on Secondary Road 1810, at Cotton Factory, and 1.2 miles upstream from Pinch Gut Creek.	9.11	1971	9-28-72	2.68
Pinch Gut Creek 02143189	Maiden Creek	Lat 35°35'34", long 81°12'26", Catawba County, at bridge on U. S. Highway 321, 0.2 mile upstream from mouth, and 1.0 mile north of Maiden.	a6.3	1956, 1963, 1970-71	9-28-72	2.32
Pinch Gut Creek 02143191	Maiden Creek	Lat 35°36'36", long 81°12'38", Catawba County, at bridge on Secondary Road 1882, 1.5 miles upstream from mouth, and 2.2 miles north of Maiden.		1970-71	9-29-72	3.03
Maiden Creek 02143192	Clark Creek	Lat 35°35'21", long 81°13'18", Catawba County, at bridge on West Main Street (Secondary Road 2007), at Maiden, and 1.1 miles upstream from mouth.		1970-71	9-28-72	9.62
Clark Creek 02143224	South Fork Catawba River	Lat 35°32'54", long 81°14'59", Lincoln County, at bridge on Secondary Road 1274, 3.1 miles downstream from Maiden Creek, and 3.1 miles southwest of Maiden.	a68	1970-71	8- 7-72	57.6
Clark Creek 02143260	South Fork Catawba River	Lat 35°28'30", long 81°16'00", Lincoln County, at bridge on Secondary Road 1008, at Lincolnton, and 0.2 mile upstream from mouth.	a92	1947, 1949-57, 1962-64, 1970-71	8- 7-72	62.7
South Fork Catawba River 02143284	Catawba River	Lat 35°27'35", long 81°15'37", Lincoln County, at bridge on Secondary Road 1222, at Lincolnton, and 3.2 miles downstream from Clark Creek.	392	1970-71	8- 8-72	367
Boger Branch 02143309	South Fork Catawba River	Lat 35°28'02", long 81°14'21", Lincoln County, at culvert on Secondary Roads 1520 and 1262, at Lincolnton.		1970-71	8- 7-72	.59
Lithia Inn Branch 02143310	South Fork Catawba River	Lat 35°27'50", long 81°13'20", Lincoln County, at culvert on Secondary Road 1262, 2 miles east of Lincolnton, and 2.5 miles upstream from mouth.	a1.0	1970-71	8- 8-72	.41
South Fork Catawba River 02143336	Catawba River	Lat 35°26'50", long 81°15'50", Lincoln County, 0.8 mile northwest of Laboratory, and 2.5 miles upstream from Indian Creek.	a400	1970-71	8-16-72	428
Lick Fork Creek 02143471	Indian Creek	Lat 35°25'00", long 81°22'30", Gaston County, at bridge on Secondary Road 1637, 0.5 mile upstream from mouth, and 2.5 miles north of Cherryville.	a5.0	1956, 1963, 1970-71	8- 8-72	3.99
Indian Creek 02143481	South Fork Catawba River	Lat 35°24'50", long 81°20'40", Gaston County, at bridge on Secondary Road 1002, 1.8 miles upstream from Leonard Fork, and 2.2 miles southwest of Crouse.	a49	1963, 1970-71	8- 8-72	40.0
Beaverdam Creek 02143519	South Fork Catawba River	Lat 35°22'29", long 81°21'45", Gaston County, at culvert on Junction of Secondary Roads 1430 and 1431, 1.1 miles east of Cherryville, and 5.2 miles upstream from mouth.		1970-71	8- 8-72	.24
Beaverdam Creek 02143531	South Fork Catawba River	Lat 35°22'37", long 81°20'32", Gaston County, at bridge on State Highway 277, 2.3 miles east of Cherryville, and 4.0 miles upstream from Little Beaverdam Creek.	a3.3	1970-71	8- 8-72	1.71

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
South Fork Catawba River 02143720	Catawba River	Lat 35°22'58", long 81°11'12", Gaston County, at bridge on Secondary Road 1607, at Hardin, and 0.7 mile upstream from Rattle Shoals Creek.		1970-71	8- 8-72	351
South Fork Catawba River 02143740	Catawba River	Lat 35°21'32", long 81°09'46", Gaston County, at bridge on Secondary Road 1001, 0.2 mile downstream from Coley Creek, and 2.1 miles southeast of Hardin.		1970-71	8- 8-72	400
Hoyle Creek 02143757	South Fork Catawba River	Lat 35°27'34", long 81°11'12", Lincoln County, at bridge on Secondary Road 1321, 1.3 miles downstream from Seaboard Air Line Railroad, and 2.0 miles southeast of Iron Station.		1970-71	8- 8-72	.74
Mauney Creek tributary 02143832	Mauney Creek	Lat 35°21'46", long 81°07'03", Gaston County, at culvert on Secondary Road 1847, 0.5 mile west of Stanley, and 0.7 mile upstream from mouth.		1970-71	8- 8-72	.10
Mauney Creek 02143844	Hoyle Creek	Lat 35°21'20", long 81°07'00", Gaston County, at bridge 1.2 miles west of Stanley, and 1.5 miles upstream from mouth.	a2.7	1970-71	9- 8-72	2.59
Hoyle Creek 02143887	South Fork Catawba River	Lat 35°20'10", long 81°08'00", Gaston County, at bridge on Secondary Road 1836, 0.2 mile upstream from mouth, and 2.8 miles northeast of Dallas.	a28	1970-71	8- 8-72	13.0
South Fork Catawba River 02143908	Catawba River	Lat 35°19'50", long 81°08'00", Gaston County, at bridge on State Highway 275, 0.1 mile downstream from Hoyle Creek, and 3 miles southwest of Stanely.	a560	1970-71	8- 8-72	529
Long Creek tributary No. 2 02143989	Long Creek	Lat 35°20'11", long 87°17'43", Gaston County, at bridge on Secondary Road 1443, 1.6 miles upstream from mouth, and 4.4 miles northwest of West Gastonia.		1970-71	8- 9-72	.73
Long Creek 02144425	South Fork Catawba River	Lat 35°17'46", long 81°11'16", Gaston County, at bridge on U. S. Highway 321, 0.3 mile upstream from Carolina and Northwestern Railroad bridge, and 1.5 miles from Dallas.		1970-71	8- 9-72	16.8
Long Creek 02144546	South Fork Catawba River	Lat 35°17'30", long 81°11'00", Gaston County, at bridge 0.2 mile downstream from Carolina and northwestern Railroad, and 1.8 miles south of Dallas.	a43	1970-71	8- 9-72	18.0
Long Creek 02144636	South Fork Catawba River	Lat 35°18'00", long 81 09'40", Gaston County, at bridge 1.2 miles southeast of Dallas, 3 miles upstream from mouth.	a48	1970-71	8- 9-72	19.7
Dillard Creek tributary 02144644	Dillard Creek	Lat 35°17'54", long 81°07'44", Gaston County, near dirt road (off Duff Street) upstream from Town of Ranlo and Rex Mill water treatment plant sewage outfall, at Ranlo.		1970-71	8- 9-72	.08
Dillard Creek tributary 02144645	Dillard Creek	Lat 35°17'49", long 81°07'45", Gaston County, 0.1 mile downstream from sewage effluent outfall at Ranlo and Rex Mill waste treatment plant, 0.4 mile upstream from mouth, and 1.3 miles north of Ranlo.		1970-71	8- 9-72	.22
Little Long Creek 02144671	Long Creek	Lat 35°19'24", long 81°11'32", Gaston County, at concrete bridge on U. S. Highway 321, 1.1 miles northwest of Dallas, and 4.9 miles upstream from mouth.		1970-71	8- 9-72	1.63
Little Long Creek 02144676	Long Creek	Lat 35°19'32", long 81°10'54", Gaston County, at bridge on Secondary Road 1008, 0.7 mile north of Dallas, and 4.1 miles upstream from mouth.		1970-71	8- 9-72	1.92
Long Creek 02144761	South Fork Catawba River	Lat 35°18'30", long 81°07'00", Gaston County, at bridge 0.2 mile upstream from mouth, 0.5 mile west of Spencer Mountain.	a61	1970-71	8- 9-72	35.6
Housers Branch 0214483966	South Fork Catawba River	Lat 35°16'52", long 81°07'09", Gaston County, 150 ft downstream from sand filters at Burlington Industries waste treatment plant, 0.9 mile east of Ranlo, and 1.4 miles upstream from mouth.		1970-71	8-14-72	.05
Housers Branch tributary 0214483988	Housers Branch	Lat 35°16'45", long 81°06'53", Gaston County, downstream from effluent discharge from Cocker Machine and Foundry waste treatment plant, 0.1 mile upstream from mouth, and 1.1 miles east of Ranlo.		1970-71	8-14-72	.03
Housers Branch 02144841	South Fork Catawba River	Lat 35°17'00", long 81°06'20", Gaston County, at bridge 0.5 mile upstream from mouth, and 0.8 mile north of Lowell.	a1.4	1970-71	8-14-72	.73
South Fork Catawba River tributary No. 2 02145167	South Fork Catawba River	Lat 35°16'00", long 81°03'19", Gaston County, at end of Secondary Road 2025, 1.2 miles northeast of McAdenville, and 1.4 miles upstream from mouth.		1970-71	8-14-72	.05

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
South Fork Catawba River tributary No. 2 02145169	South Fork Catawba River	Lat 35°15'53", long 81°03'31", Gaston County, at culvert on Interstate Highway I-85, 0.9 mile northeast of McAdenville, and 1.1 miles upstream from mouth.		1970-71	8-14-72	0.14
Duharts Creek tributary 02145265	Duharts Creek	Lat 35°16'23", long 81°07'52", Gaston County, 100 ft downstream from sand filters on Secondary Road 2230, 0.5 mile southeast of Ranlo, and 1.0 mile upstream from mouth.		1970-71	8-14-72	.05
Duharts Creek 02145268	South Fork Catawba River	Lat 35°14'51", long 81°05'51", Gaston County, at bridge on Secondary Road 2439, 1.1 mile northwest of Cramerton, and 2.0 miles upstream from mouth.		1970-71	8-14-72	1.81
Catawba Creek 02145509	Catawba River	Lat 35°13'48", long 81°08'02", Gaston County, at bridge on Secondary Road 2446, 0.9 mile downstream from Anthony Creek, and 4.0 miles southeast of Gastonia.	a9.8	1969-71	8-14-72	4.36
Catawba Creek 02145512	Catawba River	Lat 35°12'31", long 81°06'28", Gaston County, at bridge 3 miles east of Boogertown, and 6 miles upstream from mouth.	17.4	1969-71	8-14-72	22.8
McGill Creek 02145536	Crowders Creek	Lat 35°14'44", long 81°20'12", Cleveland County, at culvert on State Highway 161, 0.8 mile east of Kings Mountain, and 2.7 miles upstream from mouth.		1970-71	5-11-72 8-15-72	.17 .18
McGill Creek 02145538	Crowders Creek	Lat 35°14'40", long 81°19'08", Gaston County, at bridge on Secondary Road 1300, 1.7 miles upstream from mouth, and 1.8 miles west of Mountain View.		1970-71	5-11-72 8-15-72	2.84 1.85
Crowders Creek 02145544	Catawba River	Lat 35°19'45", long 81°16'43", Gaston County, at bridge on Secondary Road 1122, 0.8 mile upstream from Abernathy Creek, and 3.8 miles east of Kings Mountain.		1970-71	5-11-72 8-15-72	10.1 4.64
First Creek 02145551	Abernathy Creek	Lat 35°15'21", long 81°17'27", Gaston County, at first culvert under south end of Interstate Highway I-85 bridge, 0.1 mile upstream from mouth, and 2.0 miles south of Bessemer City.		1970-71	8-14-72	1.43
Oats Creek 0214555555	Crowders Creek	Lat 35°16'31", long 81°17'06", Gaston County, at concrete pipeline support at wooden bridge, 0.7 mile south of Bessemer City, and 1.4 miles upstream from mouth.		1970-71	5-11-72 8-14-72	.62 .33
Oats Creek 02145556	Crowders Creek	Lat 35°16'03", long 81°16'58", Gaston County, at culvert on Secondary Road 1306, 1.0 mile south of Bessemer City, and 1.3 miles upstream from mouth.	a1.0	1970-71	5-11-72 8-14-72	1.91 1.29
Abernathy Creek 02145562	Crowders Creek	Lat 35°15'20", long 81°16'10", Gaston County, at culvert on U. S. Highway 29, at Mountain View, and 0.1 mile upstream from mouth.	a7.2	1955, 1970-71	8-14-72	6.02
Crowders Creek 02145568	Catawba River	Lat 35°15'10", long 81°15'20", Gaston County, at bridge 1 mile downstream from Abernathy Creek, 2.8 miles southeast of Bessemer City.	a16	1957, 1970-71	8-15-72	10.5
Bessemer Branch 02145573	Crowders Creek	Lat 35°16'19", long 81°15'11", Gaston County, at culvert on Secondary Road 1312, and 2.4 miles southeast of Bessemer City.		1970-71	8-14-72	.14
Crowders Creek 02145581	Catawba River	Lat 35°14'02", long 81°13'59", Gaston County, at bridge on Linwood Road, 3 miles upstream from Ferguson Branch, and 3.2 miles east of Mountain View.	a24	1970-71	8-15-72	15.1
Blackwood Creek 02145583	Crowders Creek	Lat 35°13'34", long 81°12'53", Gaston County, at bridge on Secondary Road 1136, and 2.9 miles south of Gastonia.		1970-71	8-15-72	1.50
Blackwood Creek tributary 02145584	Blackwood Creek	Lat 35°12'15", long 81°11'49", Gaston County, at culvert on Secondary Road 1136, and 3.5 miles south of Gastonia.		1970-71	8-15-72	.05
Crowders Creek 02145585	Catawba River	Lat 35°11'38", long 81°13'22", Gaston County, at bridge on Secondary Road 1103, and 5.0 miles south of Gastonia.		1970-71	8-15-72	19.3
Crowders Creek 02145610	Catawba River	Lat 35°10'09", long 81°11'44", Gaston County, at bridge on U. S. Highway 321, 0.1 mile downstream from South Fork, and 6.5 miles south of Gastonia.	a71	1949-57, 1962, 1964, 1970-71	8-16-72	39.1
Crowders Creek tributary No. 3 02145611	Crowders Creek	Lat 35°13'14", long 81°11'51", Gaston County, at culvert on Secondary Road 2406, and 2.9 miles south of Gastonia.		1970-71	8-15-72	.18

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
Crowders Creek tributary No. 3 02145613	Crowders Creek	Lat 35°12'44", long 81°11'50", Gaston County, at bridge on Secondary Road 2412, and 4.0 miles south of Gastonia.		1970-71	8-15-72	1.73
Crowders Creek tributary No. 2 02145614	Crowders Creek	Lat 35°11'18", long 81°12'03", Gaston County, at bridge on Secondary Road 2420, 0.4 mile northeast of Crowders, and 1.4 miles upstream from mouth.	4.55	1962, 1970-71	8-16-72	3.71
Crowders Creek tributary 02145617	Crowders Creek	Lat 35°10'21", long 81°11'37", Gaston County, at bridge on Secondary Road 2416, 0.2 mile upstream from mouth, and 6.2 miles south of Gastonia.	6.63	1962, 1970-71	8-16-72	6.59
Crowders Creek 02145633	Catawba River	Lat 35°09'31", long 81°10'49", Gaston County, at bridge 0.8 mile upstream from State line, 1.5 miles downstream from South Fork, 7.2 miles south of Gastonia.	a80	1970-71	8-16-72	41.8
Crowders Creek 02145655	Catawba River	Lat 35°08'15", long 81°08'15", York County, at bridge on Ridge Road, 3.4 miles upstream from Beaver Dam Creek, and 5.5 miles northeast of Clover, S. C.		1970-71	8-16-72	42.5
Crowders Creek 0214567050	Catawba River	Lat 35°07'29", long 81°07'13", York County, at State Highway 152, 3.4 miles upstream from mouth, and 4.8 miles northeast of Clover, S.C.			3-24-71 8-16-72	74.1 48.2
Irwin Creek 02146211	Sugar Creek	Lat 35°15'43", long 80°50'14", Mecklenburg County, at culvert on U. S. Highway 21 in Charlotte, and 3.4 miles upstream from mouth.	6.03	1969-71	8-29-72	.94
Kennedy Branch 02146222	Irwin Creek	Lat 35°16'25", long 80°50'50", Mecklenburg County, at culvert on Interstate Highway 85, 1.0 mile upstream from mouth, and 3.6 miles north of County Courthouse in Charlotte.	2.27	1969-71	8-29-72	.03
Irwin Creek 02146243	Sugar Creek	Lat 35°14'08", long 80°15'17", Mecklenburg County, at bridge on State Highway 16, at Charlotte, and 1.2 miles upstream from Stewart Creek.		1969-71	8-29-72	3.05
Irwin Creek 02146287	Sugar Creek	Lat 35°13'03", long 80°52'22", Mecklenburg County, at bridge on West Boulevard at Charlotte, and 0.5 mile downstream from Stewart Creek.		1969-71	6- 8-72 8-29-72	19.9 10.3
Irwin Creek tributary 02146288	Irwin Creek	Lat 35°12'35", long 80°52'04", Mecklenburg County, 200 ft downstream from culvert on State Highway 49, 0.5 mile upstream from mouth, and 1.2 miles southwest of intersection of State Highway 49 and U. S. Highway 21 in Charlotte.		1970-71	6- 8-72 8-30-72	.15 .11
Irwin Creek 02146291	Sugar Creek	Lat 35°12'48", long 80°52'56", Mecklenburg County, at bridge on Remount Road, at Charlotte.		1970-71	6- 8-72 8-30-72	22.4 7.26
Sugar Creek 02146328	Catawba River	Lat 35°09'51", Long 80°54'46", Mecklenburg County, at bridge on State Highway 49, at Charlotte, and 2.5 miles from Taggart Creek.		1969-71	6- 8-72 8-30-72	39.5 17.7
Sugar Creek 02146330	Catawba River	Lat 35°08'21", long 80°54'41", Mecklenburg County, at bridge on Arrowood Road, 1.0 mile upstream from Coffey Creek, and 7.4 miles southwest of Charlotte.	43.7	1969-71	6- 8-72 8-30-72	38.8 19.2
Coffey Creek 02146348	Sugar Creek	Lat 35°08'43", long 80°55'37", Mecklenburg County, at bridge on State Highway 49, 1.2 miles upstream from mouth, and 7.5 miles southwest of Charlotte.	9.19	1957, 1962, 1969-71	6- 8-72 8-30-72	1.81 .01
Sugar Creek 02146354	Catawba River	Lat 35°07'16", long 80°54'10", Mecklenburg County, at bridge on Secondary Road 1126, 1.6 miles upstream from King's Branch, and 2.7 miles north of Pineville.		1969-71	6- 8-72 8-30-72	28.2 21.2
Kings Branch 02146364	Sugar Creek	Lat 35°08'12", long 80°53'11", Mecklenburg County, at bridge on Secondary Road 1138, 2.0 miles upstream from mouth, and 7.4 miles south of Charlotte.	2.63	1962, 1969-71	6- 8-72 8-30-72	.90 .39
Sugar Creek 02146381	Catawba River	Lat 35°05'20", long 80°54'00", Mecklenburg County, at bridge 0.5 mile upstream from McCullough Branch, and 0.8 mile, west of Pineville.	a64	1969-71	6- 8-72 8-30-72	44.2 25.0
Sugar Creek 02146398	Catawba River	Lat 35°04'30", long 80°54'20", Mecklenburg County, at Railroad bridge at North Carolina-South Carolina State line, 1 mile upstream from Little Sugar Creek, and 1 mile southwest of Pineville.	a69	1969-71	6- 7-72 8-30-72	47.8 26.1

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
Little Sugar Creek 02146421	Sugar Creek	Lat 35°10'21", long 80°50'49", Mecklenburg County, at bridge on Secondary Road 3814, at Charlotte, and 1.3 miles upstream from Briar Creek.		1969-71	6- 7-72 8-31-72	13.7 4.04
Briar Creek tributary No. 4 02146427	Briar Creek	Lat 35°14'37", long 80°45'07", Mecklenburg County, at culvert on Milton Road, 1.0 mile upstream from mouth, and 5.5 miles east of Post Office in Charlotte.	.82	1969-71	8-31-72	.27
Briar Creek 02146461	Little Sugar Creek	Lat 35°09'30", long 80°50'56", Mecklenburg County, at bridge on Secondary Road 3686, 0.2 mile upstream from mouth, and 4.9 miles south of Charlotte.	21.4	1957, 1962, 1969-71	6- 7-72 8-31-72	18.5 3.23
Little Sugar Creek 02146520	Sugar Creek	Lat 35°07'05", long 80°52'06", Mecklenburg County, at bridge on Secondary Road 3657, 2.5 miles northeast of Pineville.		1969-71	6- 7-72 8-31-72	60.0 20.1
Little Sugar Creek 02146538	Sugar Creek	Lat 35°04'40", long 80°53'10", Mecklenburg County, at bridge 0.5 mile southeast of Pineville, and 3.5 miles upstream from mouth.	49.3	1969-71	6- 7-72 8-31-72	57.7 18.5
McAlpine Creek 02146556	Sugar Creek	Lat 35°09'46", long 80°43'57", Mecklenburg County, at bridge on Secondary Road 3156, 0.2 mile upstream from Campbell Creek, and 5 miles west of Mint Hill.	8.66	1969-71	9- 7-72	.54
Campbell Creek 02146563	McAlpine Creek	Lat 35°09'50", long 80°44'20", Mecklenburg County, at culvert on Secondary Road 3156, 0.4 mile upstream from mouth, and 5.3 miles west of Mint Hill.		1969-71	9- 7-72	*.41
Irvins Creek 0214658055	McAlpine Creek	Lat 35°08'57", long 80°43'34", Mecklenburg County, at culvert on new U. S. Highway 74, 1.2 miles upstream from mouth, and 2.4 miles north of Matthews.		1969-71	9- 7-72	*.98
McAlpine Creek 02146592	Sugar Creek	Lat 35°08'53", long 80°44'44", Mecklenburg County, at bridge on Secondary Road 1009, 0.2 mile downstream from Irvins Creek, and 2.5 miles north of Matthews.	32.5	1930, 1957, 1962, 1969-71	9- 6-72	3.97
McAlpine Creek 02146655	Sugar Creek	Lat 35°05'02", long 80°50'05", Mecklenburg County, at bridge on State Highway 51, 1 mile upstream from Fourmile Creek, and 10.2 miles south of Post Office in Charlotte.	a51	1969-71	6- 7-72 8-31-72	41.7 3.90
Fourmile Creek 02146668	McAlpine Creek	Lat 35°05'17", long 80°46'30", Mecklenburg County, at bridge on State Highway 16, 3.6 miles west of Matthews, and 4.5 miles upstream from mouth.		1969-71	6- 7-72 8-31-72	2.29 .45
Fourmile Creek 02146670	McAlpine Creek	Lat 35°04'33", long 80°49'24", Mecklenburg County, at bridge on Secondary Road 3649, 1 mile upstream from mouth, and 4 miles east of Pineville.	a18	1957, 1962, 1964-67, 1969-71	6- 7-72 8-31-72	3.48 *.74
McMullen Creek 0214669890	McAlpine Creek	Lat 35°59'53", long 80°47'36", Mecklenburg County, at bridge on Secondary Road 3502, 4 miles southeast of Charlotte, and 7.1 miles upstream from mouth.			9- 6-72	.11
McMullen Creek 0214669895	McAlpine Creek	Lat 35°59'35", long 80°47'55", Mecklenburg County, at bridge on State Highway 16, 4.1 miles southeast of Charlotte, and 6.6 miles upstream from mouth.			9- 6-72	.20
McMullen Creek 02146716	McAlpine Creek	Lat 36°06'30", long 80°50'35", Mecklenburg County, 2.2 miles southeast of Hebron, and 3.8 miles upstream from mouth.	10.7	1969-71	6- 7-72 8-31-72	3.48 .93
McMullen Creek 02146734	McAlpine Creek	Lat 35°05'14", long 80°51'24", Mecklenburg County, at bridge on State Highway 51, 1.8 miles upstream from mouth, and 2 miles east of Pineville.	a14	1957, 1962, 1969-71	6- 7-72 8-31-72	3.49 1.07
McAlpine Creek 02146760	Sugar Creek	Lat 35°03'43", long 82°52'39", Mecklenburg County, at bridge on U. S. Highway 521, 1 mile downstream from McMullen Creek, and 2 miles south of Pineville	91.7	1949-57, 1962-67, 1969-71	6- 7-72 8-31-72	53.2 16.4
McAlpine Creek 02146761	Sugar Creek	Lat 35°03'12", long 80°53'06", Mecklenburg County, 1.0 mile downstream from bridge on U. S. Highway 521, 2.2 miles upstream from mouth, and 2.2 miles south of Pineville.		1969-71	6- 7-72	56.1
Steel Creek 02146780	Sugar Creek	Lat 35°07'18", long 80°57'12", Mecklenburg County, at bridge on Secondary Road 1344, 2.0 miles upstream from Walker Branch, and 3.5 miles south of Shopton.	a5.2	1966-67, 1969-71	10- 6-70 6- 8-72 8-30-72	.08 .79 .50

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
Steel Creek 02146782	Sugar Creek	Lat 35°05'54", long 80°57'21", Mecklenburg County, at bridge on Secondary Road 1124, 0.3 mile upstream from Walker Branch, and 4.0 miles west of Pineville.		1969-71	6- 8-72 8-30-72	0.79 .38
Polk Ditch 02146783	Walker Branch	Lat 35°05'51", long 80°57'44". Mecklenburg County, at bridge on Secondary Road 1122, 0.2 mile upstream from mouth, and 4.4 miles west of Pineville.		1969-71	6- 8-72 8-30-72	.05 .01
Sugar Creek 02146800	Catawba River	Lat 35°00'21", long 80°54'09", York County, at bridge on State Highway 160, 0.7 mile downstream from Clems Branch, and 2.6 miles east of Fort Mill, S. C.	262	1969-71	12-16-71 3-17-72 4-19-72 6-12-72	259 474 190 106
Rhone Branch 02146926	Twelve Mile Creek	Lat 34°54'46", long 80°45'18", Union County, at bridge on Secondary Road 1107, 1 mile southwest of Waxhaw, and 3.8 miles upstream from mouth.	a1.7		10- 7-70 10- 8-70 7- 8-71 5-25-72 9- 1-72	0 .01 1.33 .58 .22
Cleghorn Creek 02149322	Broad River	Lat 35°21'59", long 81°57'21", Rutherford County, on downstream side of U. S. Highway 74, 0.2 mile south of Rutherfordton, and 6.0 miles upstream from mouth.	a1.1	1959, 1964, 1970-71	4-18-72 6- 5-72	1.09 1.09
Cleghorn Creek 02149342	Broad River	Lat 35°20'31", long 81°57'52", Rutherford County, at bridge on Secondary Road 1005, 2.0 miles south of Rutherfordton, and 4 miles upstream from mouth.	a7.9	1970-71	4-18-72 6- 5-72	12.4 12.3
Saconon Creek 0214952675	Tumblebug Creek	Lat 35°19'36", long 82°21'05", Henderson County, at bridge on Secondary Road 1525, 0.8 mile upstream from mouth, and 1.3 miles east of Dana.			5-31-72 8- 9-72 9-14-72	2.38 2.53 1.93
Broad River 02149377	Santee River	Lat 35°17'30", long 81°59'33", Rutherford County, at bridge on Secondary Road 1005, 0.3 mile downstream from Cleghorn Creek, and 5.8 miles southwest of Rutherfordton.	a270	1970-71	11-18-71 3-15-72 6-14-72 9-28-72	*590 *286 402 335
Camp Creek 02149612	Green River	Lat 35°15'30", long 82°22'14", Henderon County, at bridge on Secondary Road 1006, 1.2 miles north of Saluda, and 1.7 miles upstream from mouth.		1970-71	6- 7-72	12.1
Cove Creek 02149672	Green River	Lat 35°14'28", long 82°19'06", Polk County, at bridge on Secondary Road 1122, 0.3 mile downstream from Neals tributary, and 1.7 miles east of Saluda.	1.69	1970-71	4-18-72 6- 7-72	*2.54 4.57
White Oak Creek tributary 02150020	White Oak Creek	Lat 35°15'13", long 82°10'19", Polk County, at bridge on Secondary Road 1532, 1.5 miles east of Columbus, and 2.9 miles upstream from Fork of White Oak Creek.		1970-71	4-18-72 6- 7-72	2.32 3.08
White Oak Creek tributary 02150022	White Oak Creek	Lat 35°14'28", long 82°09'12", Polk County, at bridge on Secondary Road 1519, 0.2 mile upstream from mouth, and 2.7 miles southeast of Mill Spring.	a4.8	1970-71	6- 7-72	4.68
White Oak Creek 02140031	Green River	Lat 35°16'08", long 82°08'23", Polk County, at bridge on Secondary Road 1519, 3.5 miles northeast of Columbus, and 4.2 miles upstream from Machine Creek.	a12	1964, 1970-71	6- 7-72	16.9
South Branch 02150034	White Oak Creek	Lat 35°17'41", long 82°09'58", Polk County, just upstream from effluent discharge at entrance of Stone Cutter Mills Corporation, 0.3 mile southwest of Mill Spring, and 3.5 miles upstream from mouth.		1970-71	4-18-72 6- 7-72	*.38 .40
South Branch 02150035	White Oak Creek	Lat 35°17'43", long 82°09'52", Polk County, at culvert on State Highway 108, 0.2 mile southwest of Mill Spring, and 3.4 miles upstream from mouth.		1970-71	4-18-72 6- 7-72	1.02 1.11
Green River 02150062	Broad River	Lat 35°15'35", long 81°59'02", Polk County, at bridge on Secondary Road 1302, 1 mile upstream from mouth, and 4 miles east of Green River.	a240	1970-71	11-18-71 3-14-72 6-13-72 9-28-72	219 670 233 158
Catheys Creek 02150618	Second Broad River	Lat 35°24'35", long 81°56'26", Rutherford County, at bridge on Secondary Road 1520, 3.1 miles southeast of Gilkey, and 4.6 miles upstream from Hollands Creek.		1970-71	4-19-72	29.6

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
Catheys Creek tributary 02150619	Catheys Creek	Lat 35°24'18", long 81°56'32", Rutherford County, at culvert on Secondary Road 1520, 0.3 mile upstream from mouth, and 3.2 miles southeast of Gilkey.		1970-71	6- 5-72	0.48
Holland Creek 02150628	Catheys Creek	Lat 35°23'22", long 81°52'02", Rutherford County, at culvert on U. S. Highway 64, 0.3 mile upstream from mouth, and 1.5 mies north of Ruth.		1970-71	4-18-72 6- 5-72	*3.07 3.54
Cox Branch 02150644	Holland Creek	Lat 35°22'32", long 81°54'56", Rutherford County, at culvert on Secondary Road 1591, 0.3 mile upstream from mouth, and 1.6 miles northeast of Spindale.		1970-71	4-19-72	*1.42
Second Broad River 02150744	Broad River	Lat 35°19'37", long 81°40'06", Rutherford County, 0.3 mile downstream from Forest City sewage disposal plant, 0.5 mile upstream from Morrow Creek, and 1.8 miles east of Forest City.	a170	1970-71	4-14-72	184
Morrow Creek 02150814	Second Broad River	Lat 35°18'34", long 81°50'39", Rutherford County, at bridge on Secondary Road 1903, 0.8 mile east of Alexander, and 1.2 miles upstream from mouth.	a.7	1970-71	4-19-72 6- 5-72	1.11 .98
Morrow Creek 02150816	Second Broad River	Lat 35°18'23", long 81°49'52", Rutherford County, at culvert on Secondary Road 1901, 0.2 mile upstream from mouth, and 2.0 miles southeast of Forest City.		1970-71	4-19-72	3.08
Second Broad River 02150826	Broad River	Lat 35°18'30", long 81°48'24", Rutherford County, at Southern Railway bridge, 0.5 mile upstream from Webbs Creek, and 2.8 miles east of Alexander Mills.	a190	1959, 1964, 1970	4-19-72	215
Second Broad River 02150904	Broad River	Lat 35°16'54", long 81°48'05", Rutherford County, at bridge on U. S. Highway 221A, 0.2 mile west of Coroleen, and 2.6 miles downstream from Webbs Creek.		1970-71	5- 1-72	195
Second Broad River 02150906	Broad River	Lat 35°16'12", long 81°47'59", Rutherford County, at bridge on Secondary Road 2138, 0.5 mile southwest of Avondale, and 3.0 miles downstream from Webb Creek.	a210	1970-71	5- 1-72	*215
Sandy Run 02151742	Broad River	Lat 35°15'22", long 81°41'48", Cleveland County, at bridge on Secondary Road 1003, 0.8 mile downstream from Sandy Creek tributary 2, 1.8 miles northwest of Boiling Springs.	a52	1970-71	5- 1-72 6- 6-72	*63.6 56.1
Sandy Run 02151971	Broad River	Lat 35°14'43", long 81°41'39", Cleveland County, at bridge on Secondary Road 1194, 1.6 miles west of Boiling Springs, and 1.9 miles upstream from Grog Creek.		1970-71	5- 1-72 6- 6-72	*67.4 60.6
First Broad River 02152474	Broad River	Lat 35°24'55", long 81°33'42", Cleveland County, at bridge on State Highway 182, at Lawndale, and 0.8 mile downstream from Maple Creek.	a190	1959-60, 1962, 1964, 1970-71	5- 2-72	*207
First Broad River tributary No. 2 02152478	First Broad River	Lat 35°24'40", long 81°33'57", Cleveland County, at culvert on Secondary Road 1813, 0.2 mile southwest of Lawndale, and 0.2 mile upstream from mouth.	.99	1970-71	5- 2-72	*.44
First Broad River 02152517	Broad River	Lat 35°20'45", long 81°32'47", Cleveland County, at bridge on Secondary Road 1832, 1.7 miles southeast of Metcalf, and 4.0 miles downstream from Harris Creek.		1970-71	5- 2-72	*254
Brushy Creek 02152544	First Broad River	Lat 35°20'24", long 81°37'00", Cleveland County, at bridge on Secondary Road 1323, 1.0 mile upstream from Little Creek, and 1.0 mile northeast of Washburn.	15.1	1959, 1964, 1970-71	5- 2-72 6- 6-72	*20.1 19.0
Brushy Creek 02152546	First Broad River	Lat 35°19'40", long 81°35'38", Cleveland County, at bridge 0.8 mile downstream from Little Creek, and 2 miles east of Washburn.	20.1	1970-71	5- 2-72 6- 6-72	*28.0 25.4
Brushy Creek 02152564	First Broad River	Lat 35°18'08", long 81°34'43", Cleveland County, at bridge on Secondary Road 1308, 2.2 miles northwest of Shelby, and 2.4 miles upstream from mouth.	26.7	1970-71	5- 2-72	*34.9
Brushy Creek 02152580	First Broad River	Lat 35°19'08", long 81°34'45", Cleveland County, at bridge on U. S. Highway 74, 0.7 mile west of Shelby, and 1.0 mile upstream from mouth.	27.6	1952, 1955, 1964-67, 1970-71	5- 2-72	*33.2
First Broad River 02152584	Broad River	Lat 35°15'18", long 81°35'02", Cleveland County, at bridge on State Highway 150, 2 miles southwest of Shelby, and 3.5 miles downstream from Brushy Creek.	263	1970-71	5- 4-72	*413

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
Hickory Creek tributary 02152585	Hickory Creek	Lat 35°17'39", long 81°30'31", Cleveland County, at culvert on U. S. Highway 74, 1.5 miles upstream from mouth, and 1.8 miles east of Shelby.		1970-71	5- 2-72	*0.53
Hickory Creek 02152587	First Broad River	Lat 35°14'40", long 81°33'50", Cleveland County, at bridge on Secondary Road 1110, 0.2 mile upstream from Little Hickory Creek, and 3.8 miles south of Shelby.	14.6	1959, 1964, 1970-71	5- 4-72	*27.8
First Broad River 02152596	Broad River	Lat 35°13'03", long 81°37'37", Cleveland County, at bridge on Secondary Road 1140, 3 miles upstream from mouth, and 4.8 miles northwest of Earl.	292	1968-71	10-28-71 3-14-72 6-13-72 9-27-72	532 *389 312 169
Beaverdam Creek 02152599	First Broad River	Lat 35°18'44", long 81°38'33", Cleveland County, at bridge on Secondary Road 1314, 1.2 miles southeast of Lattimore, and 6.8 miles upstream from Poplar Branch.		1970-71	5- 2-72	*2.61
Beaverdam Creek tributary 02152600	Beaverdam Creek	Lat 35°18'33", long 81°37'55", Cleveland County, at bridge on Secondary Road 1314, 0.1 mile upstream from mouth, and 1.8 miles southeast of Lattimore.		1970-71	5- 2-72	*.92
East Fork Beaverdam Creek 02152601	Beaverdam Creek	Lat 35°17'36", long 81°36'26", Cleveland County, at culvert on U. S. Highway 74, 1.7 miles upstream from mouth, and 3.7 miles west of Shelby.		1970-71	5- 2-72	*2.25
Poplar Branch 02152612	Beaverdam Creek	Lat 35°14'34", long 81°38'51", Cleveland County, at bridge on Secondary Road 1149, 1.2 miles upstream from mouth, and 1.2 miles southeast of Boiling Springs.		1970-71	5- 1-72	*1.03
Buffalo Creek 02153296	Broad River	Lat 35°19'40", long 81°28'40", Cleveland County, at Seaboard Coast Line Railroad Bridge, downstream from Long Creek, and 0.5 mile west of Stubbs.	a53	1949, 1964, 1970-71	5- 2-72	*58.2
Buffalo Creek 02153297	Broad River	Lat 35°19'30", long 81°28'40", Cleveland County, 0.5 mile southwest of Stubbs, 0.5 mile downstream from Seaboard Coast Line Railroad bridge, 0.5 mile downstream from Long Creek.	a54	1970-71	5- 2-72	*56.7
Gilliam Creek 02153309	Muddy Fork	Lat 35°20'54", long 81°23'58", Cleveland County, at bridge on dirt road extension of Secondary Road 2000, 0.4 mile upstream from mouth, and 2.4 miles southwest of Cherryville.		1970-71	5- 4-72	*3.91
Gilliam Creek tributary 02153311	Gilliam Creek	Lat 35°20'54", long 81°23'17", Gaston County, at bridge on Secondary Road 1422, 0.8 mile upstream from mouth, and 2.2 miles southwest of Cherryville.		1970-71	5- 4-72	*7.68
Muddy Fork 02153314	Buffalo Creek	Lat 35°20'20", long 81°24'40", Cleveland County, at bridge on Secondary Road 2002, 2.0 miles southeast of Waco, and 4.5 miles upstream from Persimmon Creek.	a14	1964, 1970-71	5- 4-72	*24.1
Potts Creek 02153328	Muddy Fork	Lat 35°16'00", long 81°25'30", Cleveland County, at bridge on Secondary Road 1001, 0.5 mile south of Oak Grove, and 2 miles upstream from mouth.	a10	1970-71	5- 4-72 5-10-72	*11.8 14.5
Buffalo Creek 02153332	Broad River	Lat 35°15'20", long 81°27'30", Cleveland County, at bridge on U. S. Highway 74, 0.2 mile downstream from Muddy Fork, and 5.5 miles southeast of Shelby.	a120	1959-60, 1964, 1970-71	5-10-72	233
Roberts Branch tributary 02153333	Roberts Branch	Lat 35°15'31", long 81°28'49", Cleveland County, at culvert on Secondary Road 2201, 1.4 miles upstream from mouth, and 4.1 miles southeast of Shelby.		1970-71	5- 4-72 5-10-72	*3.57 3.05
Buffalo Creek 02153334	Broad River	Lat 35°14'07", long 81°28'23", Cleveland County, at bridge on Secondary Road 1103, 1.2 miles downstream from Roberts Branch, and 4.5 miles southeast of Shelby.		1970-71	5-10-72	252
Beason Creek 02153341	Buffalo Creek	Lat 35°14'10", long 81°22'00", Cleveland County, at bridge 0.2 mile upstream from unnamed tributary, and 1.2 miles southwest of Kings Mountain.	.95	1970-71	5-10-72	.83
Beason Creek 0215334140	Buffalo Creek	Lat 35°13'45", long 81°23'28", Cleveland County, at bridge on Secondary Road 2252, 2.7 miles southwest of Kings Mountain, and 6.7 miles upstream from mouth.		1970-71	5-10-72	3.23
Beason Creek 02153342	Buffalo Creek	Lat 35°13'50", long 81°23'30", Cleveland County, at bridge, 5 miles upstream from Long Branch, 3 miles south of Sandy Plains.	a2.9	1970-71	5-10-72	5.78

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
Buffalo Creek tributary 02153401	Buffalo Creek	Lat 35°11'29", long 81°30'22", Cleveland County, at bridge on Secondary Road 2212, 0.3 mile upstream from mouth, and 1.6 miles southeast of Earl.		1970-71	5-10-72	5.68
Buffalo Creek 03153403	Broad River	Lat 35°11'20", long 81°30'20", Cleveland County, at bridge on Secondary Road 2226, 1.8 miles east of Earl, and 2.5 miles downstream from Beason Creek.	a160	1959-60, 1964, 1970-71	5-10-72	317
Lick Branch 02153429	Buffalo Creek	Lat 35°10'30", long 81°38'00", Cleveland County, at bridge 1.2 miles west of Grover, and 2.8 miles upstream from mouth.	1.09	1970-71	5-10-72	1.95
Lick Branch 02153431	Buffalo Creek	Lat 35°10'37", long 81°30'01", Cleveland County, at bridge on Secondary Road 2227, 0.7 mile upstream from mouth, and 2.9 miles west of Grover.		1970-71	5-10-72	6.04
Buffalo Creek 02153456	Broad River	Lat 35°10'21", long 81°31'03", Cleveland County, at bridge on State Highway 198, 0.1 mile upstream from North Carolina-South Carolina State line and 4 miles west of Grover.	a170	1968-71	10-29-71 11-18-71 1-26-72 3-14-72 4-20-72 5-16-72 6-13-72 7-11-72 8-31-72 9-26-72	432 318 266 206 200 530 167 147 71.9 74.3
Kings Creek 02153556	Broad River	Lat 35°12'42", long 81°21'11", Cleveland County, at bridge on U. S. Highway 29, 0.3 mile downstream from South Creek, and 2.0 miles south of Kings Mountain.	2.95		6- 6-72	1.73
North Pacolet River 02154020	Pacolet River	Lat 35°12'58", long 82°10'52", Polk County, at bridge on Secondary Road 1517, 1.2 miles downstream from Horse Creek, and 5.6 miles southwest of Sandy Plains.	44.8	1968-71	10-29-71 11-18-71 1-26-72 3-15-72 4-20-72 5-16-72 6-14-72 7-11-72 8-31-72 9-28-72	91.4 81.5 *110 *82.8 *83.1 166 83.3 98.9 *64.6 *56.3
Savannah River basin						
Chattooga River 02176908	Tugaloo Creek	Lat 35°04'26", long 83°06'27", Jackson County, at bridge on Secondary Road 1107, 0.8 mile upstream from Fowler Creek, and 2.3 miles south of Cashiers.		1969-71	5-24-72	28.9
Chattooga River 02176912	Tugaloo Creek	Lat 35°00'57", long 83°07'36", Macon County, at bridge on Secondary Road 1603, upstream from Ammons Branch, and 4.7 miles southwest of Highlands.	22.9	1959, 1969-71	10-15-71 9-28-72	21.4 32.3
Toxaway River 02184123	Keowee River	Lat 35°07'26", long 82°55'54", Transylvania County, at bridge on U. S. Highway 64, 0.7 mile south of Lake Toxaway, and 1.6 miles upstream from Indian Creek.		1969-71	5-26-72	34.8
Whitewater River 02184260	Toxaway River	Lat 35°02'13", long 83°01'10", Jackson County, at bridge on Secondary Road 1177, upstream from Upper Falls, and 6.4 miles southeast of Cashiers.	12.9	1959, 1963-66, 1968-69, 1971	5-26-71 9-28-72	50.4 20.3
Thompson River 02184302	Whitewater River	Lat 35°04'35", long 82°59'53", Transylvania County, at bridge on Secondary Road 1149, 1.2 miles upstream from Reid Branch, and 5.7 miles southwest of Lake Toxaway.	2.56	1959, 1963, 1969-71	5-26-72 9-28-72	10.4 2.78

Discharge measurements made at miscellaneous sites during water year 1972, in Ohio River basin

Kanawha River basin						
North Fork New River 03162500	New River	Lat 36°30'14", long 81°23'25", Ashe County, 0.2 mile downstream from bridge on State Highway 16, at Crumpler, and 6 miles upstream from South Fork.	277	1908-16, 1928-58, 1968, 1971	6- 1-72 9-11-72	536 213
New River 03162850	Kanawha River	Lat 36°33'08", long 81°11'00". Alleghany County, at bridge on Secondary Road 1345, 0.8 mile downstream from Rock Creek, and 1.3 miles northeast of Amelia.	820	1968-69, 1971	2-23-72 9- 8-72	3,090 882

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1972, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Tennessee River basin						
West Fork French Broad River 03438879	French Broad River	Lat 35°08'20", long 82°51'04", Transylvania County, at bridge on U. S. Highway 64, 1.2 miles upstream from North Fork, and 1.7 miles west of Rosman.	27.2	1968-71	5-25-72	103
West Fork French Broad River 03438981	French Broad River	Lat 35°08'28", long 82°50'20", Transylvania County, at bridge on Secondary Road 1135, 0.1 mile upstream from North Fork, and 1.0 mile west of Rosman.	29.4	1944, 1953-55, 1963, 1966, 1968-71	5-25-72	116
Galloway Creek 03439471	French Broad River	Lat 35°09'06", long 82°48'40", Transylvania County, at culvert on entrance road to American Thread Company from U. S. Highway 64, 0.5 mile upstream from mouth, and 0.5 mile south of Calvert.	.56	1968-71	5-25-72	1.50
Galloway Creek 03439474	French Broad River	Lat 35°09'00", long 82°48'30", Transylvania County, at culvert below American Thread Company plant, 0.2 mile upstream from mouth, and 0.5 mile south of Calvert.	.64	1968-71	5-25-72	2.24
French Broad River 03439500	Tennessee River	Lat 35°08'55", long 82°47'59", Transylvania County, at bridge on Secondary Road 1129, 0.8 mile southeast of Calvert, and 1.4 miles downstream from East Fork.	103	1924-55†, 1963, 1968-71	10-15-71 5-25-72	*161 390
King Creek 03440272	French Broad River	Lat 35°14'22", long 82°43'49", Translyvania County, at culvert on U. S. Highway 64, at Brevard, and 1.3 miles upstream from mouth.	.37	1968-69, 1971	10-15-71 5-25-72 7-18-72	*2.84 9.91 7.32
King Creek 03440276	French Broad River	Lat 35°14'04", long 82°43'13", Translyvania County, at bridge on Secondary Road 1546, 0.6 mile upstream from mouth, and 0.8 mile east of Brevard.	4.17	1968-69, 1971	10-15-71 5-25-72 7-18-72	*5.01 14.8 10.6
Joel Creek 0344075050	Davidson River	Lat 35°16'25", long 82°43'42", Transylvania County, 0.8 mile upstream from mouth, and 4.4 miles northwest of Brevard.			5-31-72 7-18-72 8- 9-72 9-14-72	2.13 1.23 1.08 *1.00
Davidson River 03441141	French Broad River	Lat 35°15'18", long 82°41'53", Transylvania County, at bridge on Secondary Road 1533, 0.2 mile northeast of Pisgah Forest.	47.2	1968-71	5-31-72	178
French Broad River 03442652	Tennessee River	Lat 35°16'06", long 82°38'13", Transylvania County, at bridge on Secondary Road 1528, 0.2 mile south of Penrose, and 0.3 mile downstream from Little River.	291	1968-71	10-15-71 4-18-72	*384 759
French Broad River 03443133	Tennessee River	Lat 35°17'49", long 82°34'51", Henderson County, at bridge on Secondary Road 1205, 0.1 mile downstream from Little Willow Creek, and 1.6 miles southeast of Etowah, and at mile 180.8	308	1968-71	4-18-72	840
North Fork Mills River 03445425	Tennessee River	Lat 35°24'20", long 82°38'32", Henderson County, downstream from sewage effluent outfall, 0.2 mile upstream from broundary of Pisgah National Forest, and 0.5 mile downstream from Rocky Fork.		1969-71	5-25-72	66.0
Little Mud Creek 03446044	Mud Creek	Lat 35°15'57", long 82°30'24", Henderson County, 600 ft upstream from culvert on Secondary Road 1127, 0.6 mile upstream from Wolf Lake Dam, 1.1 miles upstream from Mud Creek, and 3.7 miles west of Flat Rock.		1971	8- 4-72	5.15
Bat Fork Creek 03446106	Johnson's Drainage Ditch	Lat 35°16'36", long 82°24'30", Henderson County, at culvert on Secondary Road 1809, 0.8 mile southeast of East Flat Rock, and 1.2 miles upstream from Dunn Creek.	1.02	1968-71	8- 4-72	3.63
Mud Creek 03446363	French Broad River	Lat 35°20'30", long 82°28'05", Henderson County, at bridge on Secondary Road 1508, 0.4 mile southeast of Balfour, and 0.6 mile upstream from Clear Creek.	52.1	1968-71	6-14-72	*79.1
Mud Creek 03446569	French Broad River	Lat 35°21'10", long 82°27'51", Henderson County, at bridge on Secondary Road 1508, 0.2 mile downstream from Clear Creek, and 0.6 mile northeast of Balfour.	97.4	1968-71	10-15-71 6-14-72	*101 *139
French Broad River tributary 03447671	French Broad River	Lat 35°25'41", long 82°32'41", Henderson County, at culvert on Secondary Road 3526, 0.2 mile upstream from mouth, and 2.4 miles west of Fletcher.	.05	1968-71	5-31-72	.56
French Broad River 03447687	Tennessee River	Lat 35°25'45", long 82°33'12", Henderson County, at Fanning Bridge on Secondary Road 1419, 0.4 mile downstream from McEowell Creek, 2.9 miles west of Fletcher, at mile 165.3	640	1968-69, 1971	4-18-72	1,450

† Operated as a continuous gaging station.

Discharge measurements made at miscellaneous sites during water year 1972, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Tennessee River basin--Continued				
Bent Creek 0344791650	French Broad River	Lat 35°28'58", long 82°37'22", Buncombe County, at bridge on Hardtimes Road, 1.7 miles upstream from mouth, and 2.5 miles northwest of West Haven.			5-26-72 6-14-72 9-14-72	14.9 *9.22 *3.43
Bent Creek 03447917	French Broad River	Lat 35°30'08", long 82°35'39", Buncombe County, at bridge on State Highway 191, at Bent Creek, and 0.1 mile upstream from mouth.	10.8	1925, 1947	5-26-72 6-14-72 9-14-72	22.5 *14.6 *7.50
Hominy Creek tributary 03448204	Hominy Creek	Lat 35°32'33", long 82°43'48", Buncombe County, at bridge on Secondary Road 1140, 0.6 mile upstream from mouth, and 1.0 mile southwest of Jugtown.		1970-71	10-15-71 6-12-72	*.22 .40
Hominy Creek tributary 03448206	Hominy Creek	Lat 35°32'17", long 82°43'31", Buncombe County, at bridge on Secondary Road 1140, 0.1 mile upstream from mouth, and 0.7 mile east of Luther.		1970-71	10-15-71 6-12-72	*.26 .53
Hominy Creek 03448616	French Broad River	Lat 35°32'41", long 82°38'05", Buncombe County, at bridge on Sand Hill Road downstream from Enka Plant, 1.2 miles downstream from Moore Creek, 3.3 miles east of Candler.	91.1	1968-71	6-12-72	94.6
Hominy Creek 0344878115	French Broad River	Lat 35°33'14", long 82°35'27", Buncombe County, at Asheville, 0.1 mile upstream from mouth, and 0.4 mile downstream from Interstate 40.			8-17-72 9- 6-72	85.1 70.7
Lee Creek 03451644	French Broad River	Lat 35°36'52", long 82°37'41", Buncombe County, at culvert on Secondary Road 1369, 4.1 miles upstream from mouth, and 4.6 miles northeast of Enka.		1970-71	6-12-72	.37
Lee Creek 03451646	French Broad River	Lat 35°37'25", long 82°37'27", Buncombe County, at culvert on Secondary Road 1367, 2.4 miles northwest of Emma, and 3.7 miles upstream from mouth.		1970-71	6-12-72	.91
Lee Creek 03451648	French Broad River	Lat 35°37'58", long 82°37'46", Buncombe County, at bridge on Secondary Road 1002, 1.5 miles southwest of Elk Mountain, 2.6 miles upstream from mouth.		1970-71	6-12-72	1.39
Reems Creek 03451826	French Broad River	Lat 35°41'20", long 82°35'40", Buncombe County, 800 ft upstream from Wagner Branch, 2 miles west of Weaverville.	33.4	1968-71	5-31-72	31.8
Reems Creek 03451890	French Broad River	Lat 35°41'40", long 82°36'48", Buncombe County, at bridge on U. S. Highway 25, at mouth, and 0.5 mile south of Alexander.	36.3	1944, 1953-54, 1960-63, 1968-71	5-31-72	33.9
French Broad River 03451926	Tennessee River	Lat 35°42'04", long 82°37'00", Buncombe County, at bridge on Secondary Road 1634, at Alexander, 0.5 mile downstream from Reems Creek.	1,050	1968-71	4-18-72	2,160
Gabriel Creek 03452824	Ivy Creek	Lat 35°50'39", long 82°33'00", Madison County, at culvert on Secondary Road 1355, 1.2 miles north of Mars Hill, and 1.4 miles upstream from Banjo Branch.	1.61	1968-71	8- 3-72	.86
Banjo Branch 03452826	Gabriel Creek	Lat 35°50'33", long 82°33'31", Madison County, at culvert on Secondary Road 1356, 1.1 miles upstream from mouth, and 1.2 miles northwest of Mars Hill.	.71	1968-71	8- 3-72	.26
Banjo Branch 03452827	Gabriel Creek	Lat 35°49'48", long 82°33'20", Madison County, at bridge on Forest Street, 0.2 mile upstream from mouth, and 0.4 mile northwest of Mars Hill.	1.34	1968-71	8- 3-72	.77
Gabriel Creek 03452832	Ivy Creek	Lat 35°49'35", long 82°33'32", Madison County, at culvert on State Highway 213, 0.1 mile downstream from Banjo Branch, and 0.6 mile west of Mars Hill.	3.83	1968-71	8- 3-72	2.67
Pigeon River 03457124	French Broad River	Lat 35°32'06", long 82°54'40", Haywood County, at bridge on Secondary Road 1818, at Clyde, and 0.2 mile downstream from Chambers Branch.	162	1968-71	6-19-72	194
Pigeon River 03457138	French Broad River	Lat 35°32'55", long 82°56'21", Haywood County, at bridge on road connecting Secondary Roads 1513 and 1519, and 0.5 mile upstream from Richlands Creek, 2.0 miles northeast of Lake Junaluska Dam, and at mile 55.5.	167	1969-71	6-19-72	219
Richland Creek 03457332	Pigeon River	Lat 35°27'50", long 83°00'40", Haywood County, 0.1 mile upstream from Hyatt Creek, and 0.5 mile south of Hazelwood.	10.9	1968-71	6-19-72	17.9
Allen Creek 03457624	Richland Creek	Lat 35°28'02", long 83°00'23", Haywood County, at bridge on U. S. Highway 19A at Hazelwood, and 0.3 mile upstream from mouth.	16.9		5-23-72 6-19-72 8- 1-72	**82.2** **21.9** **35.0**

Discharge measurements at miscellaneous sites during water year 1972, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Tennessee River basin--Continued				
Richland Creek 03457893	Pigeon River	Lat 35°28'45", long 83°00'29", Haywood County, downstream from bridge on West Main St. (Secondary Road 1173), downstream from Camp Branch, and at Hazelwood.	35.7	1968-71	6-19-72	47.9
Richland Creek 03458421	Pigeon River	Lat 35°32'51", long 82°56'44", Haywood County, at bridge on Secondary Road 1519, 0.2 mile upstream from mouth, and 2.2 miles northwest of Clyde.	68.4	1969-71	8- 2-72	81.6
Pigeon River 03458441	French Broad River	Lat 35°33'41", long 82°57'14", Haywood County, at bridge on Secondary Road 1625, 0.5 mile downstream from Yates Cove, and 3 miles northwest of Clyde.	238	1968-71	6-18-72	296
Pigeon River 03458638	French Broad River	Lat 35°36'52", long 82°58'01", Haywood County, at bridge on Secondary Road 1363, 0.1 mile downstream from Dotson Branch, and 1.8 miles northwest of Crabtree.	278	1969-71	8- 2-73	368
North Toe River 03461910	Nolichucky River	Lat 36°05'01", long 81°55'43", Avery County, at culvert on State Highway 194, at Newland, and downstream from Kentucky Creek.	9.24	1954-55, 1962-69, 1971	7-28-72	10.7
North Toe River 03461912	Nolichucky River	Lat 36°05'42", long 81°57'07", Avery County, at bridge on Secondary Road 1157, 0.2 mile upstream from Banjo Branch, and 1.5 miles northwest of Newland.		1969-71	7-28-72	18.6
North Toe River 03461951	Nolichucky River	Lat 36°03'30", long 82°01'08", Avery County, at bridge on U. S. Highway 19E, 0.3 mile upstream from Powder Mill Creek, 0.8 mile southwest of Frank, and at mile 58.5.		1969-71	7-28-72	56.0
North Toe River 03461971	Nolichucky River	Lat 36°00'06", long 82°01'14", Avery County, 0.5 mile upstream from Pyatt Creek, 1.3 miles downstream from Justice Creek, 1.5 miles south of Spear, and at mile 52.8.		1969-71	7-28-72	86.0
Three Mile Creek 0346197560	North Toe River	Lat 35°58'16", long 82°00'43", Avery County, at bridge on State Highway 194, at Ingalls, and 0.2 mile upstream from mouth.			6-14-72 8- 3-72	10.5 12.3
North Toe River tributary 0346197595	North Toe River	Lat 35°38'54", long 82°00'48", Avery County, 0.2 mile upstream from mouth, and 0.8 mile northwest of Ingalls.			6-14-72	2.52
Three Mile Creek 0346197750	North Toe River	Lat 35°58'23", long 81°59'53", Avery County, at bridge on Secondary Road 1106, 1.0 mile west of Ingalls, and 1.1 mile upstream from mouth.			6-14-72 8- 3-72	*7.91 10.0
Brushy Creek 03461979	North Toe River	Lat 35°57'23", long 81°58'23", Avery County, 2.1 miles upstream from mouth, and 2.4 miles southeast of Ingalls.		1969-71	8- 3-72	1.12
North Toe River 03461995	Nolichucky River	Lat 35°55'04", long 82°00'19", Mitchell County, at bridge on Secondary Road 1129, 0.1 mile upstream from Holley Branch, 1.8 miles northeast of Altapass, and at mile 39.3.		1969-71	7-28-72	113
North Toe River 03462000	Nolichucky River	Lat 35°53'59", long 82°01'50", Mitchell County, 0.1 mile upstream from Rose Creek, and 1.0 mile northwest of Altapass.	104	1934-57†, 1962-63, 1968-71	12-14-71 9-27-72	259 66.4
Grassy Creek 03462655	North Toe River	Lat 35°51'30", long 82°04'32", Mitchell County, at bridge on Secondary Road 1106, 0.8 mile upstream from East Fork Grassy Creek, and 2.2 miles south of Spruce Pine,		1969-71	7-28-72	10.9
Grassy Creek 03462659	North Toe River	Lat 35°53'42", long 82°04'03", Mitchell County, at bridge on Secondary Road 1117, 0.2 mile upstream from Rockhouse Creek, and 2.7 miles west of Altapass.		1969-71	7-28-72	13.9
North Toe River 03462855	Nolichucky River	Lat 35°54'52", long 82°04'03", Mitchell County, at Spruce Pine, 0.1 mile downstream from Beaver Creek, and 0.5 mile upstream from English Creek.		1969-70	7-28-72	159
North Toe River 03463021	Nolichucky River	Lat 35°55'46", long 82°06'57", Mitchell County, at bridge on Secondary Road 1162 at Penland, 0.4 mile downstream from Bear Creek, and at mile 27.6.		1969-70	7-28-72	172
South Toe River 03463402	North Toe River	Lat 35°52'17", long 82°11'49", Yancey County, at bridge on Secondary Road 1152, 1.0 mile north of Celo.		1969-71	7-28-72	88.6
South Toe River 03463505	North Toe River	Lat 35°54'32", long 82°11'29", Yancey County, at bridge on State Highway 80 at Newdale, and 0.2 mile downstream from Long Branch.		1969-71	7-28-72	87.6

† Operated as a continuous gaging station.

Discharge measurements made at miscellaneous sites during water year 1972, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Tennessee River basin--Continued						
Cane Creek 03463651	North Toe River	Lat 36°00'48", long 82°09'49", Mitchell County, at Iron Rail bridge, 0.3 mile downstream from Honeycutt Branch, and 0.3 mile southwest of Bakersville.		1970-71	6-19-72	16.0
Cane Creek 03463654	North Toe River	Lat 36°00'58", long 82°10'19", Mitchell County, at bridge on Secondary Road 1188, 0.7 mile west of Bakersville, and 1.4 miles upstream from Cub Creek.		1970-71	6-19-72	16.8
North Toe River 03463674	Nolichucky River	Lat 36°00'47", long 82°13'46", Mitchell County, at bridge on State Highway 197, 0.6 mile south of Red Hill, and 1.0 mile upstream from Brush Creek.		1969-70	10-15-71	226
Mine Fork Creek 0346371520	French Broad River	Lat 35°57'12", long 82°16'58", Yancey County, at bridge on Secondary Road 1330, 1.1 mile southeast of Day Book, and 3.7 miles upstream from mouth at North Toe River.			6-14-72	*1.92
Mine Fork Creek 03463716	Jacks Creek	Lat 35°58'09", long 82°17'13", Yancey County, at second bridge on Secondary Road 1416, 0.7 mile upstream from Hampton Branch, and 3.7 miles northeast of Burnsville.		1970-71	10-15-71 6-19-72	*1.19 3.46
North Toe River 03463786	Nolichucky River	Lat 36°01'35", long 82°19'16", Mitchell County, at bridge on State Highway 26, at Huntdale, and 0.5 mile upstream from Cane River.	442	1968-71	3-22-72	1,650
Cane River 03463801	Nolichucky River	Lat 35°54'16", long 82°19'59", Yancey County, upstream from Pine Swamp Branch, and 2.1 miles southwest of Burnsville.		1969-71	10-15-71 6-19-72	*28.4 53.2
McIntosh Branch 03463802	Pine Branch	Lat 35°54'49", long 82°18'14", Yancey County, at culvert on West Main Street (old U. S. 19E) 0.1 mile upstream from mouth, and 1.2 miles west of Burnsville.		1969-71	10-15-71 6-19-72	*.17 .45
McIntosh Branch 03463803	Pine Branch	Lat 35°54'48", long 82°18'13", Yancey County, at culvert on U. S. Highway 19E by-pass at mouth, and 1.2 miles west of Burnsville.		1969-71	6-19-72	1.44
Cane River 03463808	Nolichucky River	Lat 35°54'38", long 82°20'53", Yancey County, at bridge on U. S. Highway 19E, 0.4 mile upstream from Roland Branch, and 2.8 miles west of Burnsville.	58.9	1969, 1971	10-15-71 6-19-72	*30.3 63.0
Nolichucky River 03464500	French Broad River	Lat 36°04'29", long 82°20'41", Mitchell County, at Poplar, and 0.7 mile upstream from Hollow Poplar Creek.	608	1925-55‡, 1962-63, 1968-71	9-27-72	305
Lance Creek 03478751	Watauga River	Lat 36°10'15", long 81°43'00", Watauga County, at culvert on Secondary Road 1552, at Camp Yonahlossee, and 2.6 miles northwest of Blowing Rock.		1950, 1971	5-10-72	.99
Watauga River 03478819	South Fork Holston River	Lat 36°11'39", long 81°44'45", Watauga County, at bridge on State Highway 105, 300 ft upstream from Laurel Fork, and 1.4 miles north of Shulls Mills.		1971	5-10-72	90.3
Watauga River 03478884	South Fork Holston River	Lat 36°13'00", long 81°47'11", Watauga County, at bridge on State Highway 194, 50 ft downstream from Dutch Creek, and 0.7 mile northwest of Valle Crucis.	48.5	1967-68, 1971	6- 1-72	97.0
Cove Creek 03478899	Watauga River	Lat 36°16'42", long 81°46'46", Watauga County, at bridge on Secondary Road 1233, at Amantha, and 1.1 miles downstream from Laurel Branch.	18.0	1960, 1971	5-10-72	28.7
Cove Creek 03478934	Watauga River	Lat 36°15'13", long 81°47'27", Watauga County, at bridge on U. S. Highway 321, at Sugar Grove, and 100 ft upstream from Brush Fork.	30.6	1960, 1971	5-10-72	34.9
Watauga River 03479269	South Fork Holston River	Lat 36°16'08", long 81°53'04", Watauga County, at bridge on Secondary Road 1200, 0.6 mile upstream from Beech Creek, and 1.2 miles northeast of community of Beech Creek.	126	1960, 1967-68, 1971	6- 1-72 9-13-72	170 *60.3
Elk River 03480454	Watauga River	Lat 36°09'30", long 81°52'58", Avery County, at Banner Elk, 900 ft upstream from Wildcat Creek, and 0.6 mile downstream from mill pond.	11.2	1971	6- 1-72	19.3
Cranberry Creek 03480775	Elk River	Lat 36°08'09", long 82°58'20", Avery County, at bridge on U. S. Highway 19E, 0.6 mile south of Cranberry, and 0.7 mile upstream from Cooper Branch.		1971	5-10-72 6- 1-72	6.54 4.40
Cranberry Creek 03480778	Elk River	Lat 36°09'10", long 82°57'53", Avery County, at bridge on Secondary Road 1169, 300 ft upstream from Blevins Creek, and 0.5 mile east of Elk Park.		1971	5-10-72 6- 1-72 9-13-72	17.0 8.76 *2.66
Little Tennessee River 03499929	Tennessee River	Lat 34°59'05", long 83°22'56", Rabun County, at bridge on Georgia State Road 246, 0.7 mile south of Georgia-North Carolina State line, and 1.0 mile north of Dillard, Ga.		1969-71	5-24-72	202

‡ Operated as a continuous gaging station.

Discharge measurements made at miscellaneous sites during water year 1972, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Tennessee River basin--Continued						
Little Tennessee River 03499936	Tennessee River	Lat 35°01'00", long 83°22'53", Macon County, at bridge on Secondary Road 1683, at Norton, and 0.1 mile downstream from Norton Branch.	63.8	1968-70	5-24-72	222
Cartoogechaye Creek 03500012	Little Tennessee River	Lat 35°06'53", long 83°27'56", Macon County, at bridge on Secondary Road 1128, 0.8 mile upstream from Allixon Creek, and 1.7 miles southeast of Cartoogechaye.	5.81	1968-71	5-24-72	30.6
Cartoogechaye Creek 0350011415	Little Tennessee River	Lat 35°09'25", long 83°27'21", Macon County, at bridge on Secondary Road 1146, 3.2 miles upstream from mouth, and 2.8 miles southwest of Franklin			5-16-72 7-28-72 9-15-72	144 62.5 *43.4
Cartoogechaye Creek 0350011455	Little Tennessee River	Lat 35°09'28", long 83°25'29", Macon County, at bridge on Secondary Road 1148, 1.8 miles upstream from mouth, and 2.0 miles southwest of Franklin.			5-16-72 7-28-72 9-15-72	162 69.5 *52.6
Little Tennessee River 03500311	Tennessee River	Lat 35°10'21", long 83°22'20", Macon County, at bridge on Secondary Road 1659, at Franklin, and 0.2 mile upstream from Cullasaja River.	201	1958-59	5-19-72 8- 8-72 9-15-72	637 687 *180
Mill Creek 03500324	Cullasaja River	Lat 35°03'18", long 83°11'49", Macon County, at culvert on U. S. Highway 64 at Highlands, and 0.4 mile upstream from Satulah Branch.	1.15	1958, 1968-71	8-11-71 5-24-72	4.92 5.81
Mill Creek 03500328	Cullasaja River	Lat 35°03'43", long 83°12'24", Macon County, at bridge on Secondary Road 1552, 0.2 mile upstream from mouth, and 0.8 mile northwest of Highlands.	1.56	1968-71	5-24-72	8.30
Little Tennessee River 03501500	Tennessee River	Lat 35°11'10", long 83°22'20", Macon County, at bridge on U. S. Highway 23 at Franklin, 0.8 mile downstream from Cullasaja River.	295		5-19-72 8- 8-72 9-15-72	921 912 *304
Little Tennessee River 03502000	Tennessee River	Lat 35°13'59", long 83°23'32", Macon County, 0.2 mile upstream from State Highway 28 at Iotla, and 0.2 mile upstream from Iotla Creek.	323	1929-45	5-19-72 9-13-72	965 347
Caler Fork 0350228799	Cowee Creek	Lat 35°16'17", long 83°21'40", Macon County, 300 ft upstream from bridge on Secondary Road 1343, 1.7 miles upstream from mouth, and 2.8 miles east of Wests Mill.			5-16-72 7-28-72 9-13-72	5.11 2.77 *1.56
Caler Fork 03502288	Cowee Creek	Lat 35°16'18", long 83°21'38", Macon County, at bridge on Secondary Road 1343, 0.5 mile upstream from Dalton Creek, 2.8 miles east of Wests Mill.	4.13		5-16-72 7-28-72 9-13-72	15.1 8.71 4.95
Cowee Creek 03502330	Little Tennessee River	Lat 35°15'46", long 83°24'33", Macon County, at bridge on Secondary Road 1340, at Wests Mill, and 0.7 mile upstream from mouth.	25.1	1944, 1953,55, 1958, 1962-66	5-16-72 7-28-72 9-13-72	62.4 38.4 20.8
Cullowhee Creek 03508646	Tuckasegee River	Lat 35°18'46", long 83°11'16", Jackson County, at Cullowhee, 0.3 mile downstream from Long Branch, and 0.9 mile upstream from mouth.	23.1	1968-71	5-24-72	47.8
Scott Creek 0350892150	Tuckasegee River	Lat 35°24'07", long 83°09'48", Jackson County, at bridge on Secondary Road 1456, at Addie, and 5.6 miles upstream from mouth.			5-23-72 8- 1-72 9-13-72	130 67.0 *67.0
Scott Creek 03508922	Tuckasegee River	Lat 35°24'08", long 83°10'36", Jackson County, at bridge on U. S. Highway 19, 1.0 mile northeast of Beta, and 1.2 miles downstream from Buff Creek.	37.6	1958-60	5-23-72 8- 1-72 9-13-72	122 68.2 *37.6
Scott Creek 0350895230	Tuckasegee River	Lat 35°23'35", long 83°11'26", Jackson County, at bridge on Secondary Road 1449, at Beta, and 4.1 miles upstream from mouth.			5-23-72 8- 1-72 9-13-72	143 78.4 *42.1
Scott Creek 03509666	Tuckasegee River	Lat 35°22'29", long 83°13'23", Jackson County, at bridge at City Hall, at Sylva, and 0.4 mile downstream from Cope Creek.	55.2	1968-71	5-10-72	124
Scott Creek 03510064	Tuckasegee River	Lat 35°22'08", long 83°14'56", Jackson County, at bridge near Dillsboro old railroad station, 0.3 mile upstream from mouth, and 1.5 miles west of Sylva.	58.9	1968-71	5-10-72	132
Tuckasegee River 03510577	Little Tennessee River	Lat 35°23'04", long 83°17'30", Jackson County, at bridge on Secondary Road 1392, at Barkers Creek, and 0.1 mile upstream from Barkers Creek.	360	1968-70	5-10-72	554
Tuckasegee River 03510592	Tuckasegee River	Lat 35°24'14", long 83°18'47", Jackson County, at bridge on Secondary Road 1397, at Wilmot, and 0.1 mile upstream from Nations Creek.	370	1968-70	5-10-72	624

Discharge measurements made at miscellaneous sites during water year 1972, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Tennessee River basin--Continued						
Tuckasgeee River 03510618	Little Tennessee River	Lat 35°26'06", long 83°21'35", Swain County, at bridge on Secondary Road 1415, at Whittier, and 0.2 mile downstream from Connelly Creek.	400	1968-70	5-10-72	629
Oconaluftee River 0351101650	Tuckasegee River	Lat 35°28'37", long 83°19'11", Swain County, at bridge on U. S. Highways 441 and 19, at Cherokee, and 4.1 miles upstream from mouth.			5-23-72 8- 1-72 9-12-72	610 356 *148
Sweetwater Creek 03515360	Cheoah River	Lat 35°19'30", long 83°47'36", Swain County, at bridge on Secondary Road 1214, 0.5 mile upstream from Tulula Creek, and 0.8 mile east of Robbinsville.	13.6	1944, 1953-55, 1963-69, 1971	5-26-72	27.8
Long Creek 03515522	Cheoah River	Lat 35°18'39", long 83°48'52", Grahcm County, at bridge on Secondary Road 1127, at Milltown, and 0.4 mile downstream from Poson Branch.	6.03	1968-71	5-26-72	12.3
Long Creek 03515610	Cheoah River	Lat 35°19'44", long 83°48'40", Graham County, at bridge on Secondary Road 1116, upstream from mouth, and 0.5 mile north of Robbinsville.	11.8	1944, 1953-55, 1958-63, 1968-71	5-26-72	27.6
Town Creek 03547123	Hiwassee River	Lat 35°02'35", long 83°48'56", Clay County, at bridge on U. S. Highway 64, at Hayesville, 0.7 mile upstream from mouth.	1.12	1968-71	4-17-72	*1.67
Town Creek 03547133	Hiwassee River	Lat 35°02'40", long 83°48'40", Clay County, 0.3 mile upstream from mouth, 0.4 mile southeast of Hayesville.	1.22	1968-71	4-17-72	1.83

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